



SABANCI UNIVERSITY RESEARCHERS CATALOGUE 2019 - 2020

FACULTY OF ARTS AND SOCIAL SCIENCES (FASS)

FACULTY OF ENGINEERING AND NATURAL SCIENCES (FENS)

SABANCI BUSINESS SCHOOL (SBS)

ISTANBUL POLICY CENTER (IPC)

SABANCI UNIVERSITY NANOTECHNOLOGY RESEARCH AND APPLICATION CENTER (SUNUM)

ISTANBUL INTERNATIONAL CENTER FOR ENERGY AND CLIMATE (IICEC)

CENTER OF EXCELLENCE IN FINANCE (CEF)

SABANCI UNIVERSITY INTEGRATED MANUFACTURING TECHNOLOGIES RESEARCH AND APPLICATION CENTER (IMC)

GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE (SUGENDER)

SABANCI UNIVERSITY CENTER OF EXCELLENCE IN DATA ANALYTICS (VERIM)

CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES (EFSUN)

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FASS

FACULTY OF ARTS AND SOCIAL SCIENCES

AYŞE GÜL ALTINAY (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9286</i>
E-Mail	<i>altinay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/altinay/</i>
Research Area Keywords	<i>Political Anthropology, Transformative Politics, Militarism, Trauma, Embodiment, Memory, Gender and Sexuality.</i>
Current Research Activities	<i>Altınay's current research and writing focus on gender and memory, political violence and trauma, transformative political imaginaries, embodied politics, and social and political processes of (de)militarization. Her co-edited book (with Maria Jose Contreras, Marianne Hirsch, Jean Howard, Banu Karaca and Alisa Solomon) Women Mobilizing Memory, is due out of Columbia University Press in Spring 2019.</i>

ATEŞ ALTINORDU (FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Cultural Studies</i>
Phone	<i>90 (216) 483 9283</i>
E-Mail	<i>atesaltinordu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/atesaltinordu/</i>
Research Area Keywords	<i>Religion and Politics, Religious Parties, Secularism, Comparative-Historical Sociology, Sociology of Religion, Political Sociology, Social Theory.</i>
Current Research Activities	<i>Ates Altinordu's work focuses on religion and politics, particularly on religious parties and secularist movements. He received his Ph.D. degree from the Sociology Department at Yale University in May 2010. His dissertation, titled "Religious Politics: Political Catholicism and Political Islam in Comparative Perspective" won the Marvin B. Sussman Dissertation Prize in 2011. Altinordu has recently received a Jean Monnet Teaching Module Grant from the European Commission for his proposal on "Religion and European Integration". Altinordu's recent publications include "After Secularization?" (with Philip S. Gorski), <i>Annual Review of Sociology</i> (2008) and "The Politicization of Religion: Political Catholicism and Political Islam in Comparative Perspective", <i>Politics and Society</i> (2010). He is currently completing an article manuscript on the political incorporation of anti-system religious parties.</i>

ÇİĞDEM BAĞCI (FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Psychology</i>
Phone	<i>90 (216) 483 9275</i>
E-Mail	<i>cigdem.bagci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Group Processes and Intergroup Relationships; Intergroup Contact; Social Identity; Prejudice; Discrimination; Self-efficacy; Minority Groups; Immigration.</i>
Current Research Activities	

KRISTEN SARAH BIEHL ÖZTUZCU (RESEARCHER)

Area	<i>Conflict Analysis and Resolution / Psychology</i>
Phone	90 (216) 483 9263
E-Mail	kristenb@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/kristenb
Research Area Keywords	<i>Social and Cultural Anthropology; Migration and Refugee Studies; Urban Studies; Diversity and Conviviality; Civil Society and NGOs.</i>
Current Research Activities	<i>Kristen Biehl’s current research explores the increasingly popular term of social cohesion in Turkey’s refugee context, both as a policy concept and a socio-spatial practice. It aims to synthesize two separate and independent lines of previous research spanning over a decade: one based on her PhD study (University of Oxford) examining ethnographically processes of change and practices of co-existence in urban contexts of migration, and the other based on variously funded (EU, Stiftung Mercator) research projects exploring the impact of different social integration and cohesion policies and programs for refugees in Turkey. Her recent publications include “Living Together in Ambivalence in a Migrant Neighborhood of Istanbul” in Nora Fischer Onar, Susan C. Pearce and Fuat Keyman (eds), <i>Istanbul: Living with Difference in a Global City</i> (Rutgers University Press), “Irregular migrants and negotiated urban space in Istanbul” in Fatma Muge Gocek (ed.), <i>Contested Spaces in Turkey: Politics of the Urban, Secular, Legal and Environmental</i> (London: IB Tauris); “Spaces of inclusion or exception? The experience and regulation of citizenship in a space of irregularity in Istanbul” in Roberto G. Gonzales and Nando Sigona (eds.), and <i>Within and Beyond Citizenship: Borders, Membership and Belonging</i> (Routledge).</i>

AYŞE BETÜL ÇELİK (FACULTY MEMBER)	
Area	<i>Conflict Analysis and Resolution / Political Science</i>
Phone	<i>90 (216) 483 9298</i>
E-Mail	<i>bcelik@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bcelik/</i>
Research Area Keywords	<i>Ethnicity and Ethnic Conflict, Civil Society and NGOs; Forced Migration; Culture and Conflict Resolution; Role of Organizations in Conflict Resolution.</i>
Current Research Activities	<i>Ayşe Betül Çelik's research interests focus around ethnicity, migration and cultural elements in conflict and conflict resolution. Recently, she is involved in projects, which study possible reconciliation attempts regarding the Kurdish Question, indigenous conflict resolution methods in blood feuds, and honor killings in southeastern Anatolia, and intercultural negotiation. She is a member of the intercultural negotiation project led by the University of Maryland, where a computer-based mediator will analyze negotiation style differences between Turkish and American students. She is also working on research analyzing the different roles played by NGOs and state actors in addressing the problems of internally displaced Kurds. She is also interested in studying the differences among Turkish political parties in their understanding of gender policies. Her recent books include <i>The Making of Neoliberal Turkey</i> (2016, Routledge), <i>Queering Sexualities in Turkey</i> (2017, IB Tauris) and <i>Kultur Denen Sey</i> (2018, Metis).</i>

EMRE HATİPOĞLU (FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Political Science / International Studies</i>
Phone	<i>90 (216) 483 9260</i>
E-Mail	<i>ehatipoglu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ehatipoglu/</i>
Research Area Keywords	<i>Comparative Foreign Policy, Turkish Foreign Policy, Economic Sanctions, Energy, Social Media and Public Opinion, Interstate Conflict.</i>
Current Research Activities	<i>Dr.Hatipoğlu's most recent project on Energy Interdependence and Interstate Relations is currently being funded by grants from the Fulbright Commission and TÜBİTAK 2219. He and his colleagues recently concluded a TÜBİTAK 3001 project, which constructed a dataset on Turkey's peacekeeping operations worldwide. Dr. Hatipoğlu's final ongoing project with Dr. Saygın on Turkish Twitter and public opinion has led to numerous publications, and received an award from the Association of Turkish Market Researchers.</i>

FUAT KEYMAN (VICE PRESIDENT FOR INSTITUTIONAL AFFAIRS AND SOCIAL IMPACT, IPC DIRECTOR, FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Political Science / Public Policy / International Studies</i>
Phone	90 (216) 483 9115
E-Mail	fuat@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/fuat/
Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations; Turkey – EU Relations; Turkish Foreign Policy; and Civil Society Development.</i>
Current Research Activities	<p><i>“Promises and Challenges of Diversity: The Role of Civil Society Initiatives in Fostering Pluralism”, Istanbul Policy Center, October 2018 (with Feyzi Baban, Hande Paker, and Kim Rygiel). ISBN: 978-605-2095-37-9</i></p> <p><i>“Social Cohesion in Turkey”, Istanbul Policy Center, June 2018 (with Aysen Ataseven and Çağla Bakış). ISBN: 978-605-2095-25-6</i></p> <p><i>“Water and Food Security in Turkey in a Changing Climate,” Istanbul Policy Center, March 2018 (with Tuğba Ağaçayak). ISBN: 978-605-2095-18-8</i></p> <p><i>Keyman, Fuat, Nora Fisher-Onar, and Susan C. Pearce, ed. Istanbul: Living with Difference in a Global City (İstanbul: Küresel Bir Şehirde Farklılıklarla Birlikte Yaşamak). February 2018.</i></p>

ARZU KIBRIS (NETWORK FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Political Science / International Studies</i>
Phone	<i>90 (216) 482 9255</i>
E-Mail	<i>akibris@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/akibris/</i>
Research Area Keywords	<i>Civil Conflict, Linkage Politics, Quantitative Methods, Game Theory.</i>
Current Research Activities	<i>Arzu Kibris's research interests focus on the dynamics and socio-political effects of civil conflicts, and the linkages between domestic and foreign policy. She mostly conducts empirical work, but also employs game theoretical tools in her analyses. Her current projects are about the impact of PKK's terrorist campaign on voting behavior and on the educational sector in Turkey. She is also working on a game theoretical model of ethnic civil conflicts project aimed at understanding the interplay between public opinion and the long duration of these conflicts.</i>

LEYLA NEYZİ (FACULTY MEMBER)

Area	<i>Conflict Analysis and Resolution / Cultural Studies / Gender Studies</i>
Phone	<i>90 (216) 483 9243</i>
E-Mail	<i>neyzi@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/neyzi</i>
Research Area Keywords	<i>Oral History; Cultural Identity; Minorities and Nationalism; Memory; Subjectivity; Middle Eastern Ethnography and Social History.</i>
Current Research Activities	<i>Leyla Neyzi is currently working on a series of articles based on the data collected during two consecutive research projects she conducted in 2009-2012 and 2012-2013. One article is forthcoming in New Perspectives on Turkey, and three other articles are planned for submission to indexed journals in 2014.</i>

HÜLYA ADAK (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>Cultural Studies / European Studies / Gender Studies / Turkish Studies</i>
Phone	<i>90 (216) 483 9287</i>
E-Mail	<i>hadak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hadak/</i>
Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In collaboration with a group of colleagues from Duke University, University of Texas-Austin, and Northwestern University, Adak received a grant from the British Arts and Humanities Research Council to conduct the project "Women's Autobiographies in Islamic Societies." As part of this three-year long project terminating in 2012, she completed a book on the work of Halide EdibAdivar. In the summer of 2010, she planned to complete a book on National Myths of Turkey analyzing political memoirs. The special dossier of New Perspectives on Turkey (SSCI) on "gender and ethnicity" for which she is the guest editor will be published in May 2010. The anthology Adak prepared with Prof. Erika Glassen (FreiburgUniversity), <i>ModerneTürkische Geschichte</i>, explores key social and cultural events of the twentieth century through a series of heretofore-dismissed, yet quite significant, auto/biographical sources. The German version was published in the summer of 2010. Erika Glassen and Hülya Adak would like to expand the anthology and publish it in Turkish in Turkey. The book <i>işte böyle güzelim...</i> based on interviews with women from Turkey and Germany on sexuality was published in 2008, and the German translation <i>so ist das, meine Schöne...</i> was published by Orlanda Frauenverlag in 2009. The long-term goals of the project consist of preparing a second book including current interviews on sexuality, and publishing an edited volume (an academic book) on "feminism, sexuality and theater" in Turkey. Adak's forthcoming book is entitled 'Confrontations across the Genocidal Divide: Turkish and Armenian Literatures in Turkey and in Diaspora.</i>

AYŞE GÜL ALTINAY (FACULTY MEMBER)

Area	<i>Cultural Studies / Conflict Analysis and Resolution / Gender Studies</i>
Phone	<i>90 (216) 483 9286</i>
E-Mail	<i>altinay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/altinay/</i>
Research Area Keywords	<i>Political Anthropology, Transformative Politics, Militarism, Trauma, Embodiment, Memory, Gender and Sexuality.</i>
Current Research Activities	<i>Altınay's current research and writing focus on gender and memory, political violence and trauma, transformative political imaginaries, embodied politics, and social and political processes of (de)militarization. Her co-edited book (with Maria Jose Contreras, Marianne Hirsch, Jean Howard, Banu Karaca and Alisa Solomon) Women Mobilizing Memory, is due out of Columbia University Press in Spring 2019.</i>

ATEŞ ALTINORDU (FACULTY MEMBER)

Area	<i>Cultural Studies / Conflict Analysis and Resolution</i>
Phone	<i>90 (216) 483 9283</i>
E-Mail	<i>atesaltinordu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/atesaltinordu/</i>
Research Area Keywords	<i>Religion and Politics, Religious Parties, Secularism, Comparative-Historical Sociology, Sociology of Religion, Political Sociology, Social Theory.</i>
Current Research Activities	<i>Ates Altinordu's work focuses on religion and politics, particularly on religious parties and secularist movements. He received his Ph.D. degree from the Sociology Department at Yale University in May 2010. His dissertation, titled "Religious Politics: Political Catholicism and Political Islam in Comparative Perspective" won the Marvin B. Sussman Dissertation Prize in 2011. Altinordu has recently received a Jean Monnet Teaching Module Grant from the European Commission for his proposal on "Religion and European Integration". Altinordu's recent publications include "After Secularization?" (with Philip S. Gorski), Annual Review of Sociology (2008) and "The Politicization of Religion: Political Catholicism and Political Islam in Comparative Perspective", Politics and Society (2010). He is currently completing an article manuscript on the political incorporation of anti-system religious parties.</i>

KRISTEN SARAH BIEHL ÖZTUZCU (RESEARCHER)

Area	<i>Cultural Studies / SU Gender / Conflict Analysis and Resolution</i>
Phone	<i>90 (216) 483 9263</i>
E-Mail	<i>kristenb@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kristenb</i>
Research Area Keywords	<i>Social and Cultural Anthropology; Migration and Refugee Studies; Urban Studies; Diversity and Conviviality; Civil Society and NGOs.</i>
Current Research Activities	<i>Kristen Biehl's current research explores the increasingly popular term of social cohesion in Turkey's refugee context, both as a policy concept and a socio-spatial practice. It aims to synthesize two separate and independent lines of previous research spanning over a decade: one based on her PhD study (University of Oxford) examining ethnographically processes of change and practices of co-existence in urban contexts of migration, and the other based on variously funded (EU, Stiftung Mercator) research projects exploring the impact of different social integration and cohesion policies and programs for refugees in Turkey. Her recent publications include "Living Together in Ambivalence in a Migrant Neighborhood of Istanbul" in Nora Fischer Onar, Susan C. Pearce and Fuat Keyman (eds), <i>Istanbul: Living with Difference in a Global City</i> (Rutgers University Press), "Irregular migrants and negotiated urban space in Istanbul" in Fatma Muge Gocek (ed.), <i>Contested Spaces in Turkey: Politics of the Urban, Secular, Legal and Environmental</i> (London: IB Tauris); "Spaces of inclusion or exception? The experience and regulation of citizenship in a space of irregularity in Istanbul" in Roberto G. Gonzales and Nando Sigona (eds.), and <i>Within and Beyond Citizenship: Borders, Membership and Belonging</i> (Routledge).</i>

ZEYNEP GÜLRU GÖKER (RESEARCHER)

Area	<i>Cultural Studies / Gender Studies</i>
Phone	<i>90 (216) 483 9274</i>
E-Mail	<i>gulru@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulru/</i>
Research Area Keywords	<i>Gender and Politics, Gender, Political Participation and Civic Engagement, Participatory and Deliberative Democracy, Women's Movements, Politics of Motherhood, Gender and Political Education, Gender and Care.</i>
Current Research Activities	<p><i>Gülru Göker's academic work is mainly focused on political participation, deliberative democracy and the gendered aspects of politics. She applies a gender perspective to her study of extra-parliamentary political participation, civic engagement and political education. Her current research explores the place of gender equality and democracy in theory and in practice in alternative early education models. She also conducts research on digital feminism, the politics of motherhood and the role of care in political action and civic engagement. She is working / has worked as researcher on the following projects:</i></p> <p><i>Co-Principal Investigator, "GEARING-Roles: Gender Equality Actions to Transform Gender roles", European Commission Horizon 2020 SWAFS (January 2019 – January 2023)</i></p> <p><i>Coordinator / researcher, "Gender Equality Actions in Turkey's Higher Education", in collaboration with the Raoul Wallenberg Institute in Turkey (January-April 2018).</i></p> <p><i>Researcher, "Living Together with Difficult Memories and Diverse Identities", funded by ERANET-RUS-PLUS (TÜBİTAK in Turkey). Project coordinator: Dr. Kirsti Salmi-Niklander, Helsinki University. Turkey team coordinator: Prof. Hülya Şimğa, Maltepe University. (January 2016-January 2018)</i></p> <p><i>Researcher, "Gezi Resistance and Individuals in Solidarity: The Formation of New Women Political Subjects in Turkey", funded by the Galatasaray University Scientific Research Projects Coordination Department (May 2014-August 2015)</i></p> <p><i>Post-doctoral researcher, "Russian-Turkish Migratory System: Methods of Estimations and Forecasting in Migration Flows", funded by The Scientific and Technological Research Council in Turkey (project coordinator: Prof. Ahmet İçduygu) (July 2012-November 2013).</i></p>

GÜROL IRZİK (FACULTY MEMBER)

Area	<i>Cultural Studies / Philosophy</i>
Phone	<i>90 (216) 483 9348</i>
E-Mail	<i>irzik@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/irzik/</i>
Research Area Keywords	<i>Philosophy of Science; Philosophy of Social Sciences; Causation; Social and Political Philosophy; Science Education.</i>
Current Research Activities	<p><i>My current research covers two areas: one that lies at the intersection of philosophy of science and social & political philosophy, the other being science education. The former involves developing a normative theoretical framework within which the opportunity to acquire knowledge can be conceptualized as a matter of justice. My earlier research on commercialization and democratization of science, as well as the nature of public trust in science, is subsumable under this framework.</i></p> <p><i>In the area of science education, I further articulate “the family resemblance approach to the nature of science” that I developed earlier, and draw its implications for the teaching of science for science educators.</i></p>

SİBEL IRZİK (FACULTY MEMBER)

Area	<i>Cultural Studies / Gender Studies</i>
Phone	<i>90 (216) 483 9332</i>
E-Mail	<i>sibeli@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/sibeli/</i>
Research Area Keywords	<i>Literary Theory; 20th Century British, American and Turkish Novel; Narrative Theory; Literature and Memory Studies; Literature and Politics; Literature and Gender.</i>
Current Research Activities	<i>My main current research area is cultural memory, politics and the novel in Turkish literature. In recent years, I have been working on coup d'état novels, especially those concerning the 1980 coup, and the representation of politics, as well as the relation between aesthetics and politics in contemporary Turkish novels. I will extend this study further through a comparative analysis, including political novels from Latin America and other relevant regions. I am also engaged in research related to current theoretical and practical reconsiderations of the notions of comparative literature, world literature, and literary canons in the context of globalization. As part of that engagement, I am co-authoring a book about the place (and absence) of Oğuz Atay's work in Turkish and world literature canons.</i>

ASLI İKİZOĞLU ERENSU (FACULTY MEMBER)

Area	<i>Cultural Studies</i>
Phone	<i>90 (216) 483 9255</i>
E-Mail	<i>aikizoglue@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aikizoglue</i>
Research Area Keywords	<i>Feminist Political Geography; Urban Geography; Mobilities; Forced Migration; Politics of Humanitarianism.</i>
Current Research Activities	<i>Aslı İkizoğlu Erensü is broadly interested in regimes of mobility and politics of humanitarianism, and specifically works on (i) how refugees are constituted as subjects of intervention at the intersection of the two, and (ii) how the experience of asylum is locally produced in Turkish cities. She has published on these issues in both Turkish and English-language journals, including Citizenship Studies and Journal of Refugee Studies. For her current research, she will focus on the politics of motherhood in the recent trend of outmigration from Turkey, and question how ideals and practices of motherhood impact women's sense of belonging to Turkey and pave the way to the decision to migrate.</i>

FAİK KURTULMUŞ (FACULTY MEMBER)

Area	<i>Cultural Studies / Philosophy / Political Science</i>
Phone	<i>90 (216) 483 9282</i>
E-Mail	<i>afaikkurtulmus@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/afaikkurtulmus/</i>
Research Area Keywords	<i>Political Philosophy, Social Epistemology, Distributive Justice, Political Epistemology.</i>
Current Research Activities	<i>I am interested in issues that lie at the intersection of social epistemology and political philosophy, such as questions of justice in the distribution of knowledge and the role of science in democratic societies.</i>

LEYLA NEYZİ (FACULTY MEMBER)

Area	<i>Cultural Studies / Conflict Analysis and Resolution / Gender Studies</i>
Phone	<i>90 (216) 483 9243</i>
E-Mail	<i>neyzi@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/neyzi</i>
Research Area Keywords	<i>Oral History; Cultural Identity; Minorities and Nationalism; Memory; Subjectivity; Middle Eastern Ethnography and Social History.</i>
Current Research Activities	<i>Leyla Neyzi is currently working on a series of articles based on the data collected during two consecutive research projects she conducted in 2009-2012 and 2012-2013. One article is forthcoming in New Perspectives on Turkey, and three other articles are planned for submission to indexed journals in 2014.</i>

CENK ÖZBAY (FACULTY MEMBER)

Area	<i>Cultural Studies / Gender Studies</i>
Phone	<i>90 (216) 483 9253</i>
E-Mail	<i>ozbay@sabanciuniv.edu</i>
Web	<i>www.cenkozbay.com</i>
Research Area Keywords	<i>Sociology of Gender and Sexualities; Masculinity Studies; Globalization and Neoliberalism; Anthropology of Work; Urban Sociology; Mobilities and Transportation Systems; Qualitative Research Methods.</i>
Current Research Activities	<i>My recent research activities concentrate on the questions around how different domains of life (including cultures of work and workplace, gentrification processes, social justice activism, space-making, and the making of neoliberal personhood) are articulated with class, gender, political, sexual, and bodily forms of identification and collectivities in Istanbul. My most recent books are Queering Sexualities in Turkey: Male Prostitutes, Gay Men, and the City (2017, IB Tauris) and Kultur Denen Sey: Antropolojik Yaklaşımlar (2018, Metis).</i>

AYŞECAN TERZİOĞLU (FACULTY MEMBER)

Area	<i>Cultural Studies / Gender Studies</i>
Phone	<i>90 (216) 483 9272</i>
E-Mail	<i>aysecan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Globalization and Health Inequalities; Gender, Body and Health, Illness Experiences and Narratives.</i>
Current Research Activities	<i>Syrian Refugees in Turkey and their Health Care Access, and Social and Cultural Factors that Influence Smoking in Turkey.</i>

MUSTAFA OĞUZ AFACAN (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9326</i>
E-Mail	<i>mafacan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/mafacan/</i>
Research Area Keywords	<i>Matching Theory, Market Design, Game Theory.</i>
Current Research Activities	<i>Mustafa Oguz Afacan is broadly interested in Matching Theory, Market Design, and Game Theory. Specifically, discreet object allocation and two-sided matching problems are his fields of expertise. Mustafa Oguz Afacan is currently working on the generalization of the conventional priority-based object allocation problem.</i>

YUSUF EMRE AKGÜNDÜZ (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9254</i>
E-Mail	<i>emre.akgunduz@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/emreakgunduz/</i>
Research Area Keywords	<i>Labour economics, education economics, firm dynamics, applied microeconometrics</i>
Current Research Activities	

AHMET ALKAN (EMERITUS PROFESSOR)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9233</i>
E-Mail	<i>alkan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/alkan/</i>
Research Area Keywords	<i>Microeconomic Theory, Game Theory; Matching and Auctions.</i>
Current Research Activities	<i>His research interests are in economic theory and game theory in general matchings, auctions, mechanism and market design in particular. Currently he is working on an information acquisition problem in matching markets and on multiobject auction design. He is also interested in the education sector where matching rules and institutions are particularly important, and engaged in an empirical study of the secondary education sector in Turkey, specifically on the determinants of success in university placements.</i>

**İZAK ATİYAS (DIRECTOR FOR TUSIAD, SABANCI UNIVERSITY
COMPETITIVENESS FORUM, FACULTY MEMBER)**

Area	<i>Economics / European Studies / Public Policy</i>
Phone	<i>90 (216) 483 9241</i>
E-Mail	<i>izak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/izak/</i>
Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My current research areas are competition law and policy, regulation in telecommunications and electricity industries, and privatization. In the field of competition law, I am currently conducting a TUBITAK-sponsored Project on the Examination of Competition Board Decisions from the Perspective of Law and Economics. The decisions of the Competition Board are examined with two objectives in mind: the first is to evaluate the extent and sophistication of economic analysis they contain. The second is to compare them with the decisions undertaken in the application of competition law in the European Union.</i>

ECONOMICS

Current Research Activities	<i>In the field of regulation, I am studying the interaction between ex-ante regulation and ex-post enforcement of competition law in the telecommunications industry. In electricity regulation, I am writing a paper on the general assessment of restructuring in the electricity industry in Turkey. In privatization, I have recently published a book chapter on the assessment of the recent privatization experience in Turkey.</i>
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ABDURRAHMAN AYDEMİR (FACULTY MEMBER)

Area	<i>Economics / Public Policy</i>
Phone	<i>90 (216) 483 9344</i>
E-Mail	<i>aaydemir@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~aaydemir/</i>
Research Area Keywords	<i>Applied Microeconomics; Labour Economics; Migration; Education.</i>
Current Research Activities	<i>Abdurrahman Aydemir's research focuses on immigration, education, and intergenerational mobility. He is currently working on a number of projects that investigate the role of ethnic networks on human capital investments, the labor market outcomes of Turkish immigrants across Europe, and the impact of the change in compulsory schooling laws on educational attainment and labor market outcomes in Turkey.</i>

ERDAL AYDIN (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9322</i>
E-Mail	<i>erdalaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Energy Policy, Sustainability In Real Estate Sector, Economics of Energy Efficiency, Green Energy Technologies, Residential Energy Demand, Household Behavior.</i>
Current Research Activities	<p><i>Estimating the rebound effect in the residential sector.</i></p> <p><i>Energy labels and capitalization of energy efficiency in the housing market.</i></p> <p><i>The impact of building standards and mandatory energy labeling policies on residential energy consumption across Europe.</i></p> <p><i>Impact of smart meters on household energy consumption: evidence from a field experiment.</i></p> <p><i>The economics of residential solar water heaters in emerging economies: the case of Turkey.</i></p> <p><i>Energy efficiency premium in the rental housing market: evidence from the Netherlands.</i></p> <p><i>Split incentives between landlords and tenants for energy efficiency investments: evidence from the Dutch housing market.</i></p> <p><i>The impact of building energy labels on time and on the market.</i></p> <p><i>Impact of subsidy policies on the adoption of solar panels: evidence from a natural experiment.</i></p>

MEHMET BAÇ (FACULTY MEMBER)

Area	<i>Economics / Public Policy</i>
Phone	<i>90 (216) 483 9257</i>
E-Mail	<i>bac@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bac/</i>
Research Area Keywords	<i>Microeconomics; Industrial Organization; Law and Economics.</i>
Current Research Activities	<i>Recent papers focus on the following topics: (a) Theoretical analysis of the interaction between the defensive and offensive demands for guns, and optimal gun control policies; (b) The equilibrium analysis of opinion expressions under social sanctions imposed by the majority, dominant culture, (c) Emergence of old-boy networks of entrepreneurs and their welfare effects (with Eren Inci), (d) Prohibition policies when goods can be offered as bribes and gifts.</i>

MEHMET BARLO (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9284</i>
E-Mail	<i>barlo@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~barlo/</i>
Research Area Keywords	<i>Microeconomics and Game Theory; Mechanism Design; Contract Theory; Monetary Theory; Growth Theory and Development; International Finance and Trade.</i>
Current Research Activities	<i>Mehmet Barlo's field of research consists of bounded rationality in game theory, a subfield of microeconomics. The theory of games analyzes optimal behavior of decision makers when the returns of each of them depend on the choices of others. In this analysis rationality is an essential ingredient, and in some cases the assumption of rationality implies formulations with agents' ability to compute/foresee extremely complex analytical and computational operations. This, of course, is hardly realistic. Barlo's research, on the other hand, concerns the analysis of agents' optimal behavior when each one of them is boundedly rational, meaning that their ability to process information and computations is bounded.</i>

ESRA DURCEYLAN KAYGUSUZ (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9297</i>
E-Mail	<i>esradk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/esradk/</i>
Research Area Keywords	<i>Applied Microeconomics, Industrial Organizations, Applied International Trade, Firm Growth.</i>
Current Research Activities	<i>Esra Durceylan Kaygusuz is an applied micro economist with a specialization in empirical industrial organizations and international trade. She employs both structural and reduced form panel data econometrics techniques to better understand and quantify the effects of factors that contribute to firm productivity growth and hence overall industry growth.</i>

ALPAY FİLİZTEKİN (CENTER FOR INDIVIDUAL AND ACADEMIC DEVELOPMENT DIRECTOR, FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9258</i>
E-Mail	<i>alpayf@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/alpayf/</i>
Research Area Keywords	<i>Economic Growth; Regional Economics; Inequality; Economics of Education; Turkish Economy.</i>
Current Research Activities	<i>Currently Filiztekin is working on contemporary income and consumption distribution in Turkey. In a related research, he is also interested in wealth distribution in the Ottoman Empire. His second set of research is in the economics of education. Particularly he is investigating regional distribution of educational attainment in Turkey, returns to education at a detailed level and intergenerational education mobility.</i>

İNCİ GÜMÜŞ (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9318</i>
E-Mail	<i>incigumus@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/incigumus/</i>
Research Area Keywords	<i>International Finance, Open Economy, Macroeconomics.</i>
Current Research Activities	<i>Inci Gümüş's research areas are international finance and open economy macroeconomics. Her research focuses mainly only on sovereign default risk, currency crises, exchange rate regimes and business cycles in emerging market economies. Dr. Gümüş is currently working on business cycle properties of emerging market economies under different exchange rate regimes, and the relationship between real exchange rates and macroeconomic fluctuations.</i>

EREN İNCİ (VICE DEAN, FACULTY MEMBER)

Area	<i>Economics / Public Policy</i>
Phone	<i>90 (216) 483 9340</i>
E-Mail	<i>ereninci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ereninci/</i>
Research Area Keywords	<i>Urban Economics, Transportation Economics, Public Economics, Industrial Organization.</i>
Current Research Activities	<i>Eren İnci's current research projects concentrate on the economics of parking, which considers optimal pricing of and land allocation for parking. If parking is not priced properly, its costs are embedded in the price of everything else in the city. Traffic congestion worsens due to cars cruising for parking; shopping malls provide parking for free, but then reflect parking costs in the price of goods and services sold at the mall, and housing prices are inflated due to free on-street parking. Dr. İnci's work investigates such cases and searches for optimal parking policy.</i>

REMZİ KAYGUSUZ (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9244</i>
E-Mail	<i>rkaygusuz@sabanciuniv.edu</i>
Web	<i>www.remzikaygusuz.com</i>
Research Area Keywords	<i>Macroeconomics, Taxation, Female Labor Supply, Social Security, Household Labor Supply.</i>
Current Research Activities	<i>Remzi Kaygusuz is a macroeconomist who focuses on quantitative implications of tax policies on household labor supply and welfare. In his latest research, he investigates macroeconomic implications of expanding childcare-related transfers in US. In addition, he works on the implications of tax policies on earnings and consumption inequality.</i>

ÖZGÜR KIBRIS (ACTING DEAN)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9267</i>
E-Mail	<i>ozgur@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozgur/</i>
Research Area Keywords	<i>Game Theory, Economic Design, Political Economics, Decision Theory.</i>
Current Research Activities	<i>Ozgur Kibris' recent research focuses on behavioral decision theory, political economics, and economic design. In behavioral decision theory, he develops and (both theoretically and experimentally) analyzes decision models that can accommodate systematic violations of the standard rational choice model (such as reference dependent behavior, limited attention, or status quo bias). In political economics, his recent research focuses on empirical analysis of the implications of civil conflicts, as well as theoretical models of conflict dynamics. In economic design, his recent research focuses on experimental tests of game theoretical models of bankruptcy and research allocation in partnerships.</i>

IVAN GUILLERMO LOPEZ CRUZ (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9337</i>
E-Mail	<i>ilopezcr@sabanciuniv.edu</i>
Web	<i>https://ivanlopezcruz.wordpress.com/</i>
Research Area Keywords	<i>Economics of Crime and Conflict, Applied Econometrics, Economics of Education.</i>
Current Research Activities	<i>“The Paradox of Power Revisited” (R and R in ET). “Policing, schooling and human capital accumulation”, and “Stirring a Hornet’s Nest, Geographic Distribution of Crime” (under revision).</i>

ZEREN TAŞPINAR (POST-DOC)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9346</i>
E-Mail	<i>zeren@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Macroeconomics; Urban Economics.</i>
Current Research Activities	<i>Currently works on a TUBITAK ERA-NET sponsored project on Building Resilient Economic Agglomerations addressing Transportation and Health Effects: Urban Form, location choice, and transport solutions for high air quality and low- carbon cities.</i>

HAKKI YAZICI (FACULTY MEMBER)

Area	<i>Economics / Public Policy</i>
Phone	<i>90 (216) 483 9331</i>
E-Mail	<i>hakkiyazici@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hakkiyazici/</i>
Research Area Keywords	<i>Macroeconomics; Public Finance.</i>
Current Research Activities	<i>Hakki Yazıcı's primary fields of research are Macroeconomics and Public Finance. Currently, he is especially interested in optimal education policy. He is working on how to design public programs to provide equality of opportunity for children from poor families with Prof. Nicola Pavoni of University College London and Tommy Leung of Chinese University of Hong Kong.</i>

BAHRİ YILMAZ (EMERITUS PROFESSOR)

Area	<i>Economics / European Studies</i>
Phone	<i>90 (216) 483 9236</i>
E-Mail	<i>bahri@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bahri/</i>
Research Area Keywords	<i>International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).</i>
Current Research Activities	<i>Institutions and Economic Development; World Economic Crisis and its Impacts on Turkey; European Energy Security and the Role of Turkey; Relations of Turkey with the EU; China's Economic Development and EU-Chinese Relations.</i>

HÜLYA ADAK (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>European Studies / Cultural Studies / Gender Studies / Turkish Studies</i>
Phone	<i>90 (216) 483 9287</i>
E-Mail	<i>hadak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hadak/</i>
Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In collaboration with a group of colleagues from Duke University, University of Texas-Austin, and Northwestern University, Adak received a grant from the British Arts and Humanities Research Council to conduct the project "Women's Autobiographies in Islamic Societies." As part of this three-year long project terminating in 2012, she completed a book on the work of Halide EdibAdivar. In the summer of 2010, she planned to complete a book on National Myths of Turkey analyzing political memoirs. The special dossier of New Perspectives on Turkey (SSCI) on "gender and ethnicity" for which she is the guest editor will be published in May 2010. The anthology Adak prepared with Prof. Erika Glassen (FreiburgUniversity), <i>ModerneTürkische Geschichte</i>, explores key social and cultural events of the twentieth century through a series of heretofore-dismissed, yet quite significant, auto/biographical sources. The German version was published in the summer of 2010. Erika Glassen and Hülya Adak would like to expand the anthology and publish it in Turkish in Turkey. The book <i>işte böyle güzelim...</i> based on interviews with women from Turkey and Germany on sexuality was published in 2008, and the German translation <i>so ist das, meine Schöne...</i> was published by Orlanda Frauenverlag in 2009. The long-term goals of the project consist of preparing a second book including current interviews on sexuality, and publishing an edited volume (an academic book) on "feminism, sexuality and theater" in Turkey. Adak's forthcoming book is entitled 'Confrontations across the Genocidal Divide: Turkish and Armenian Literatures in Turkey and in Diaspora.</i>

**İZAK ATIYAS (DIRECTOR FOR TUSIAD, SABANCI UNIVERSITY
COMPETITIVENESS FORUM, FACULTY MEMBER)**

Area	<i>European Studies / Economics / Public Policy</i>
Phone	<i>90 (216) 483 9241</i>
E-Mail	<i>izak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/izak/</i>
Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My current research areas are competition law and policy, regulation in telecommunications and electricity industries, and privatization. In the field of competition law, I am currently conducting a TUBITAK-sponsored Project on the Examination of Competition Board Decisions from the Perspective of Law and Economics. The decisions of the Competition Board are examined with two objectives in mind: the first is to evaluate the extent and sophistication of economic analysis they contain. The second is to compare them with the decisions undertaken in the application of competition law in the European Union. In the field of regulation, I am studying the interaction between ex-ante regulation and ex-post enforcement of competition law in the telecommunications industry. In electricity regulation, I am writing a paper on the general assessment of restructuring in the electricity industry in Turkey. In privatization, I have recently published a book chapter on the assessment of the recent privatization experience in Turkey.</i>

SENEM AYDIN DÜZGİT (FACULTY MEMBER)

Area	<i>European Studies / Political Science / International Studies</i>
Phone	<i>90 (216) 483 9292</i>
E-Mail	<i>saduzgit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/saduzgit/</i>
Research Area Keywords	<i>European Foreign Policy, Turkish Foreign Policy, EU-Turkey Relations, Discourse Analysis, International Relations Theory, Identity and Foreign Policy.</i>
Current Research Activities	<i>Senem Aydın-Düzgıt is currently completing a project on the culture and identity dimensions of the EU-Turkey relationship funded by Horizon 2020. In January 2019 she started a new Horizon 2020 project on differentiated integration in the EU. She is currently working on a chapter on international democracy support for a book that is forthcoming from Oxford University Press, and another chapter on polarization in Turkey for a book that is forthcoming from Brookings Institution Press. On the European foreign policy front, she is working on an article on the normative contestations of EU foreign policy in the EU's wider neighborhood.</i>

AHMET EVİN (EMERITUS PROFESSOR)

Area	<i>European Studies / Political Science</i>
Phone	<i>90 (216) 483 9230</i>
E-Mail	<i>aevin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aevin/</i>
Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>Evin's research has centered on cultural contexts of political change, in particular the theory of the state and development of democracy as a form of state. As a Jean Monnet Professor, he has worked on policy issues relating to European enlargement and the EU's eastern partnership, their significance for Turkey and the region, as well as their effect on transatlantic relations. His research as a former senior fellow of the Transatlantic Academy focused on Turkey's foreign and energy policy in the context of Europe's energy supply security and its transatlantic implications. As a member of the Advisory Board and senior fellow of Institute of Advanced Studies-Közseg, his research focuses on current developments in Central Europe and Southeastern Europe. His more recent research interests on the "Future of the Liberal Order," has resulted in three reports, the most recent of which is "The Sliding West: Populism and Religion as Challenges to the Liberal Order" (coauthored with Megan Gisclon, published by IPC in July 2016). His most recent book "Turkey and the EU: Energy, Transport and Competition Policies" was published in the European Energy Studies Series by Claeys & Casteels (2016). Since 2017, he has taken up, as a sequel to the future of the 'Liberal Order', research on Eurasia in the context of which an initial roundtable conference was organized at DGAP, the report of which was published by IPC in 2018.</i>

AYŞE KADIOĞLU (FACULTY MEMBER)

Area	<i>European Studies / Political Science / International Studies</i>
Phone	90 (216) 483 9235
E-Mail	ayse@sabanciuniv.edu; akadioglu@fas.harvard.edu
Web	http://myweb.sabanciuniv.edu/ayse/my-cv/
Research Area Keywords	<i>Hybrid Regimes, Competitive Authoritarianism, Electoral Authoritarianism.</i>
Current Research Activities	<i>Ayşe Kadioğlu has been a Visiting Scholar at Harvard University, Minda de Gunzburg Center for European Studies since mid-January 2018. She has been conducting research on the discourses of new authoritarian regimes where elections coexist with authoritarian measures and the new challenges they pose for the opposition political parties especially in the cases of Turkey and Venezuela while observing the nature of democratic backsliding and the impact of the European Union processes in Poland. She has recently published an article titled "Reading John Stuart Mill in Turkey in 2017" in Middle East Law and Governance (10/2, 2018, pp.203-232).</i>

MELTEM MÜFTÜLER-BAÇ (FACULTY MEMBER)

Area	<i>European Studies / Political Science / International Studies</i>
Phone	90 (216) 483 9247
E-Mail	muftuler@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/muftuler/
Research Area Keywords	<i>Turkey, European Integration, Differentiated Integration, Migration, Foreign Policy, Democratization, Political Conditionality.</i>
Current Research Activities	<i>EU enlargement, European (dis)integration, parliamentary cooperation, Turkey-EU relations, foreign aid, migration governance. Currently a consortium member in two H2020 projects- InvDivEU (2019-2022)- on differentiation integration in the EU and MAGYC (2018-2022)-migration governance and asylum policies as well as advisory board member in two H2020 projects- EU-List on European foreign policy and FEUTURES- Turkey's Futures with the EU.</i>

Current Research Activities	<p>Most recent publications are <i>Diverging Pathways: Turkey and the European Union, Re-Thinking the Dynamics of Turkish-European Union Relations</i> published by Barbara Budrich in 2016, "Turkey's future with the EU: Alternative modes of integration", <i>Turkish Studies</i>, 2017 and "Turkey's Compliance with the European Union's Development Policy: A Pattern of External Differentiated Integration?", <i>Journal of European Integration</i>, 2018, co-authored with Damla Cihangir-Tetik. Muftuler-Bac holds two prestigious awards from the Turkish Academy of Sciences: Young Social Scientist Investigator Award in 2002 and Distinguished Young Scientist Award in 2003.</p>
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BAHRİ YILMAZ (EMERITUS PROFESSOR)

Area	<i>European Studies / Economics</i>
Phone	90 (216) 483 9236
E-Mail	<i>bahri@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bahri/</i>
Research Area Keywords	<i>International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).</i>
Current Research Activities	<i>Institutions and Economic Development; World Economic Crisis and its Impacts on Turkey; European Energy Security and the Role of Turkey; Relations of Turkey with the EU; China's Economic Development and EU-Chinese Relations.</i>

HÜLYA ADAK (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>European Studies / Cultural Studies / Gender Studies / Turkish Studies</i>
Phone	<i>90 (216) 483 9287</i>
E-Mail	<i>hadak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hadak/</i>
Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In collaboration with a group of colleagues from Duke University, University of Texas-Austin, and Northwestern University, Adak received a grant from the British Arts and Humanities Research Council to conduct the project "Women's Autobiographies in Islamic Societies." As part of this three-year long project terminating in 2012, she completed a book on the work of Halide EdibAdivar. In the summer of 2010, she planned to complete a book on National Myths of Turkey analyzing political memoirs. The special dossier of New Perspectives on Turkey (SSCI) on "gender and ethnicity" for which she is the guest editor will be published in May 2010. The anthology Adak prepared with Prof. Erika Glassen (FreiburgUniversity), <i>ModerneTürkische Geschichte</i>, explores key social and cultural events of the twentieth century through a series of heretofore-dismissed, yet quite significant, auto/biographical sources. The German version was published in the summer of 2010. Erika Glassen and Hülya Adak would like to expand the anthology and publish it in Turkish in Turkey. The book <i>işte böyle güzelim...</i> based on interviews with women from Turkey and Germany on sexuality was published in 2008, and the German translation <i>so ist das, meine Schöne...</i> was published by Orlanda Frauenverlag in 2009. The long-term goals of the project consist of preparing a second book including current interviews on sexuality, and publishing an edited volume (an academic book) on "feminism, sexuality and theater" in Turkey. Adak's forthcoming book is entitled 'Confrontations across the Genocidal Divide: Turkish and Armenian Literatures in Turkey and in Diaspora.</i>

AYŞE GÜL ALTINAY (FACULTY MEMBER)

Area	<i>Gender Studies / Conflict Analysis and Resolution / Cultural Studies</i>
Phone	<i>90 (216) 483 9286</i>
E-Mail	<i>altinay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/altinay/</i>
Research Area Keywords	<i>Political Anthropology; Nationalism; Militarism; Peace Education; Gender and Sexuality.</i>
Current Research Activities	<i>Altınay's current research and writing focus on gender and memory; political violence and trauma; transformative political imaginaries; embodied politics; social and political processes of (de)militarization. Her co-edited book (with Maria Jose Contreras, Marianne Hirsch, Jean Howard, Banu Karaca and Alisa Solomon) Women Mobilizing Memory is due to come out of Columbia University Press in Spring 2019. With Gülru Göker, she is the Co-Principal Investigator of "GEARING-Roles: Gender Equality Actions to Transform Gender Poles", European Commission Horizon 2020 SwafS (January 2019 – January 2023).</i>

KRISTEN SARAH BIEHL ÖZTUZCU (RESEARCHER)

Area	<i>SU Gender / Conflict Analysis and Resolution / Cultural Studies</i>
Phone	<i>90 (216) 483 9263</i>
E-Mail	<i>kristenb@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kristenb</i>
Research Area Keywords	<i>Social and Cultural Anthropology; Migration and Refugee Studies; Urban Studies; Diversity and Conviviality; Civil Society and NGOs.</i>
Current Research Activities	<i>Kristen Biehl's current research explores the increasingly popular term of social cohesion in Turkey's refugee context, both as a policy concept and a socio-spatial practice, and focuses on the role of gender more specifically. Besides her individual research, Biehl is currently involved in developing new collaborative projects, including one examining migration research in Turkey from a gendered perspective, and another (in collaboration with SU Gender's Curious Steps Program), examining different methods and theories of urban research centered on walking.</i>

ZEYNEP GÜLRU GÖKER (RESEARCHER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9274</i>
E-Mail	<i>gulru@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulru/</i>
Research Area Keywords	<i>Gender and Politics; Gender, Political Participation and Civic Engagement; Participatory and Deliberative Democracy; Women's Movements; Politics of Motherhood; Gender and Political Education; Gender and Care.</i>
Current Research Activities	<p><i>Gülru Göker's academic work is mainly focused on political participation, deliberative democracy and the gendered aspects of politics. She applies a gender perspective to her study of extra-parliamentary political participation, civic engagement and political education. Her current research explores the place of gender equality and democracy in theory and in practice in alternative early education models. She also conducts research on digital feminism, politics of motherhood and the role of care in political action and civic engagement. She is currently working as co-principal Investigator (together with Ayşe Gül Altınay) in the Project: "GEARING-Roles: Gender Equality Actions to Transform Gender Roles" funded by European Commission Horizon 2020 SWAFS (January 2019 – January 2023). She has also previously worked as researcher on the following projects:</i></p> <p><i>*Coordinator / researcher, "Gender Equality Actions in Turkey's Higher Education", in collaboration with the Raoul Wallenberg Institute in Turkey (January-April 2018).</i></p> <p><i>*Researcher, "Living Together with Difficult Memories and Diverse Identities", funded by ERANET-RUS-PLUS (TÜBİTAK in Turkey). Project coordinator: Dr. Kirsti Salmi-Niklander, Helsinki University. Turkey team coordinator: Prof. Hülya Şimğa, Maltepe University (January 2016-January 2018)</i></p> <p><i>*Researcher, "Gezi Resistance and Individuals in Solidarity: The Formation of New Women Political Subjects in Turkey", funded by the Galatasaray University Scientific Research Projects Coordination Department (May 2014-August 2015)</i></p> <p><i>*Post-doctoral researcher, "Russian-Turkish Migratory System: Methods of Estimations and Forecasting in Migration Flows", funded by The Scientific and Technological Research Council in Turkey (project coordinator: Prof. Ahmet İçduygu) (July 2012-November 2013)</i></p>

SİBEL IRZİK (FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9332</i>
E-Mail	<i>sibeli@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/sibeli/</i>
Research Area Keywords	<i>Literary Theory; 20th Century British, American and Turkish Novel; Narrative Theory; Literature and Memory Studies; Literature and Politics; Literature and Gender.</i>
Current Research Activities	<i>My main current research area is cultural memory, politics and the novel in Turkish literature. In recent years, I have been working on coup d'état novels, especially those concerning the 1980 coup, and the representation of politics, as well as the relation between aesthetics and politics in contemporary Turkish novels. I will extend this study further through a comparative analysis, including political novels from Latin America and other relevant regions. I am also engaged in research related to current theoretical and practical reconsiderations of the notions of comparative literature, world literature, and literary canons in the context of globalization. As part of that engagement, I am co-authoring a book about the place (and absence) of Oğuz Atay's work in Turkish and world literature canons.</i>

LEYLA NEYZİ (FACULTY MEMBER)

Area	<i>Gender Studies / Conflict Analysis and Resolution / Cultural Studies</i>
Phone	<i>90 (216) 483 9243</i>
E-Mail	<i>neyzi@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/neyzi</i>
Research Area Keywords	<i>Oral History; Cultural Identity; Minorities and Nationalism; Memory; Subjectivity; Middle Eastern Ethnography and Social History.</i>
Current Research Activities	<i>Leyla Neyzi is currently working on a series of articles based on the data collected during two consecutive research projects she conducted in 2009-2012 and 2012-2013. One article is forthcoming in <i>New Perspectives on Turkey</i>, and three other articles are planned for submission to indexed journals in 2014.</i>

CENK ÖZBAY (FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9253</i>
E-Mail	<i>ozbay@sabanciuniv.edu</i>
Web	<i>www.cenkozbay.com</i>
Research Area Keywords	<i>Sociology of Gender and Sexualities; Masculinity Studies; Globalization and Neoliberalism; Anthropology of Work; Urban Sociology; Mobilities and Transportation Systems; Qualitative Research Methods.</i>
Current Research Activities	<i>Özbay's recent research activities concentrate on the questions around how different domains of life (including cultures of work and workplace, gentrification processes, social justice activism, space-making, and the making of neoliberal personhood) are articulated with class, gender, political, sexual, and bodily forms of identification and collectivities in Istanbul. My most recent books are <i>Queering Sexualities in Turkey: Male Prostitutes, Gay Men, and the City</i> (2017, IB Tauris) and <i>Kültür Denen Şey: Antropolojik Yaklaşımlar</i> (2018, Metis).</i>

AYŞECAN TERZİOĞLU (FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9272</i>
E-Mail	<i>aysecan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Globalization and Health Inequalities; Gender; Anthropology of the Body; Anthropology of the Middle East; Illness Experiences and Narratives.</i>
Current Research Activities	<i>One of Terzioğlu's current research projects focuses on the problems that Syrians experience in seeking health care in Turkey. It explores the discriminatory discourses they encounter in the realm of health care, and how they cope with them. This research is a part of a larger research project she is currently designing about the basic needs of Syrians in Turkey, such as health, education, housing and employment, in terms of how they struggle to address those needs, and what type of daily life encounters they experience in that process. Gender conceptions and embodiment play an important role in shaping these experiences and encounters; therefore, they constitute major parts of my theoretical framework. Terzioğlu's other research project delves into the biopolitics of smoking in Turkey, which takes into account the past and current political attempts at tobacco control and bans, and how it affected the tobacco consumption patterns. It also pinpoints the traditional gender norms that condemn women smoking, especially in public areas, and how the female smokers react against these norms. Her articles on Syrians in Turkey are published in the Making of Neoliberal Turkey (Routledge, 2016), Toplum ve Bilim (2015) and Anthropology of Contemporary Middle East and Central Eurasia (2018). Her article on the gendered performativities of smoking is published in Toplum ve Hekim (2018).</i>

TÜLAY ARTAN (FACULTY MEMBER)

Area	<i>History</i>
Phone	90 (216) 483 9238
E-Mail	<i>tulay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/tulay/</i>
Research Area Keywords	<i>Early Modern Collecting Culture and Antiquarianism; Codes of Protocol; Prosopographic Studies; Law and Social/Family Life; Ottoman Households; Royal Hunt and Equestrianism; Books and Reading Culture; 17th-18th Century Ottoman and Middle Eastern History in Comparative Perspective.</i>
Current Research Activities	<i>Artan's current research and writing focus on Ottoman Collecting Culture and Antiquarianism; Prosopographic Studies of the Ottoman Elite; Ottoman Royal Family and Households; Political Culture and Codes of Protocol, 1676-1776; Ottoman Royal Hunt and Equestrian Culture. Artan's ongoing research projects include Strategies of Collecting and Fate of Şehid Ali Paşa's Manuscript Collection (TUBITAK); Treasury Account Book of the Topkapı Palace -1680 (Topkapı Palace Museum and SU); Teşvikiye Mahallesi Araştırmaları: Tarih, Mimari, Yaşam 1800-1900 (SU).</i>

HÜLYA CANBAKAL (NETWORK FACULTY MEMBER)

Area	<i>History / Turkish Studies</i>
Phone	90 (216) 483 9240
E-Mail	<i>hcanbakal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hcanbakal/</i>
Research Area Keywords	<i>Early Modern Ottoman History; Urban History; Legal Culture; Political Culture; Social and Economic History.</i>
Current Research Activities	<i>18th-century Rebellions in South Eastern Anatolia and Northern Syria; Distribution of Wealth in the Ottoman Empire (1500-1840); Household Patterns in the Ottoman Empire (1500-1840); Labor Relations in the Ottoman Empire (1500-1840).</i>

FERENC PETER CSIRKES (FACULTY MEMBER)

Area	<i>History</i>
Phone	<i>90 (216) 483 9374</i>
E-Mail	<i>fcsirk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>History of the Medieval and Early Modern Persianate World; History of Iran and Central Asia; Persian Literature, Turkish Literature, Turkic Literature, Cultural History, Ottoman Literature, Language and Literacy.</i>
Current Research Activities	<i>History of Turkic Literature in Safavid Iran; Life and literary works of Sadiqi Beg (ca. 1533-1609); Language ideologies and vernacularization in the medieval and Early Modern Persianate World.</i>

HAKAN ERDEM (FACULTY MEMBER)

Area	<i>History / Turkish Studies</i>
Phone	<i>90 (216) 483 9295</i>
E-Mail	<i>erdemy@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~erdemy/</i>
Research Area Keywords	<i>History of Ottoman Slavery, Modern State Construction in the Late Ottoman Empire; Repercussions of the Greek War of Independence in the Ottoman Empire; Introduction of the New Conscript Army, Transformation of Ottoman Political Language and Culture.</i>
Current Research Activities	<i>A Documentary History of the Greek Revolution from the Ottoman Archives (book); Selim III: The Sultan with Two States (book); Magic, Theft and Arson: The Life and Death of an Enslaved African Woman in Ottoman Izmit (Article/book).</i>

EMRE EROL (DIRECTOR FOUNDATIONS DEVELOPMENT, FACULTY MEMBER)

Area	<i>History / Turkish Studies</i>
Phone	<i>90 (216) 483 9264</i>
E-Mail	<i>erolemre@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/erolemre</i>
Research Area Keywords	<i>Late 19th – Early 20th Century Ottoman/Turkish History, History of Socialisms and Nationalisms In The Ottoman Empire, Personal Histories and Ego-Documents of The Young Turks, History Of Port-Towns and Port-Cities In The Eastern Mediterranean, History of Capitalism In The Eastern Mediterranean, History of Migrations In The Ottoman Empire With Special Focus on Forced Displacement In Balkans and Western Anatolia During The Late Ottoman Period.</i>
Current Research Activities	<i>Heuristic research on the ego documents of the Unionists and Kemalists, collection and analysis of local history material on the late 19th century Ayalık (Aivali), research on the overlapping patterns of cultural, demographic and economic pillars of the Unionists' and Kemalists' nation-state building projects, advanced readings on multiple modernist trajectories in the making of modern Turkey.</i>

CEMİL KOÇAK (FACULTY MEMBER)

Area	<i>History / Turkish Studies</i>
Phone	<i>90 (216) 483 9239</i>
E-Mail	<i>ckocak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ckocak/</i>
Research Area Keywords	<i>Turkish Political History; Turkish Foreign Policy; Historical Writing and Methodology.</i>
Current Research Activities	<i>Turkish political history; history of Turkish foreign policy (turkish-american diplomatic relations after Second World War); Historiography; methodology of the discipline of history.</i>

AYŞE OZİL (FACULTY MEMBER)	
Area	<i>History / Turkish Studies</i>
Phone	<i>90 (216) 483 9288</i>
E-Mail	<i>ayseozil@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ayseozil/</i>
Research Area Keywords	<i>Late Ottoman History, Social and Urban History, Nationalism, Ethno-Religious Communities, Minority Questions, Ottoman-Greek Studies, Modern Greek History.</i>
Current Research Activities	<i>Ayşe Ozil specializes in the history of the Greek communities in the late Ottoman Empire. She has published on the modernization of Greek education in the nineteenth century, educational policies of the early republican period, the contribution of Greek communities to the urban development of Istanbul, and the political experiences of western Anatolian Greeks in the First World War. Her monograph, entitled <i>Orthodox Christians in the Late Ottoman Empire: A Study of Communal Relations in Anatolia</i> (London: Routledge, 2013) deals with issues of communal belonging through an examination of institutional, legal and administrative matters involving Ottoman Greeks. A Turkish edition of the monograph has recently been published under the title, <i>Anadolu Rumları: Osmanlı İmparatorluğu'nun Son Döneminde Millet Sistemini Yeniden Düşünmek</i> (İstanbul: Kitap Yayınevi, 2016). She is currently working on the urban history of late Ottoman Istanbul and is contributing to a collaborative project on the modernization of the city.</i>

BRATISLAV PANTELIC (FACULTY MEMBER)

Area	<i>History / Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9262</i>
E-Mail	<i>pantelic@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~pantelic/</i>
Research Area Keywords	<i>Late Classical and Byzantine Art and Architecture; 19th- Century Art and Architecture of Southeastern Europe; Archaeological Methodology; Art History; Art Theory.</i>
Current Research Activities	<i>Bratislav Pantelic is an art historian who specializes in the art and architecture of Southeastern Europe. He has published on late classical, Byzantine and medieval art and architecture. In his most recent works, he has ventured into the modern age to concentrate on issues relating to the visual arts, nationalism and identity. His focus is on the past -- how the past has been perceived and in particular how perceptions of the past and notions of heritage and cultural belonging are used in identity construction and eventually to influence political action.</i>

AKŞİN SOMEL (FACULTY MEMBER)

Area	<i>History / Turkish Studies</i>
Phone	<i>90 (216) 483 9278</i>
E-Mail	<i>somel@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/somel/</i>
Research Area Keywords	<i>Education During Ottoman Reform Era; Modernization of Ottoman Bureaucracy; Historical Statistics of Istanbul; Relationship Between Center and Periphery; Gender Issues During Late Ottoman Era.</i>
Current Research Activities	<p><i>In 2017, I have been working on two books. One of them is a joint-project with Tarih Vakfı to write a history of the Özel Alman Lisesi (Deutsche Schule Istanbul). The other is a book on the biographies of Ottoman grand viziers of the reform era. At the same time, I have been involved in two book editorship process. The first one is, together with Alexandre Toumarkine & Mehmet Beşikçi, and titled Not All Quiet on the Ottoman Fronts: A Social History of World War I, 1914-18 (forthcoming at the Cambridge University Press). The other is prepared, together with Seyfi Kenan, and titled Patterns of Transformation in the Ottoman Empire (From the Late Medieval Age to the Modernity): Festschrift for Metin Kunt (forthcoming at the E.J.Brill Publishers).</i></p> <p><i>Two book chapters are under preparation; one is titled "Hakan-ı Rum or Yavuz Sultan Selim – Throne of Joseph or Grand Islamic Caliphate? Some Observations on Changing Ottoman Turkish Perceptions of the Conquest of the Mamluk Lands from 1520 to 1920" This chapter is forthcoming within the volume titled Transformation of the Middle East by Selim I. 500th Anniversary of the Conquest of Syria and Egypt by the Ottoman Empire. Abdurrahim Abu-Husayn (ed.) (Beirut: American University of Beirut Press). The other chapter is titled "Autonomous Dynamics of Cultural Modernization at the Provincial Level: Muslim Private Educational Initiatives in the Ottoman Provinces (1856-1908)". This chapter is forthcoming within the volume titled From Subject to Nation: Conscription, Education, and Welfare in the Nineteenth and Early Twentieth Century Ottoman Empire. Kaori Komatsu & Kiyohiko Hasebe (eds.) (Tokyo: Waseda University Press).</i></p> <p><i>In 2017-18 I will complete the encyclopedia entry "Mehmed Tahir Münif Paşa", to be published at the Encyclopedia of Islam. Third Edition (Leiden: E.J.Brill Publishers) [forthcoming].</i></p>

SENEM AYDIN DÜZGİT (FACULTY MEMBER)

Area	<i>Political Science / European Studies / International Studies</i>
Phone	<i>90 (216) 483 9292</i>
E-Mail	<i>saduzgit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/saduzgit/</i>
Research Area Keywords	<i>European Foreign Policy, Turkish Foreign Policy, EU-Turkey Relations, Discourse Analysis, International Relations Theory, Identity and Foreign Policy.</i>
Current Research Activities	<i>Senem Aydın-Düzgıt is currently completing a project on the culture and identity dimensions of the EU-Turkey relationship funded by Horizon 2020. In January 2019 she started a new Horizon 2020 project on differentiated integration in the EU. She is currently working on a chapter on international democracy support for a book that is forthcoming from Oxford University Press, and another chapter on polarization in Turkey for a book that is forthcoming from Brookings Institution Press. On the European foreign policy front, she is working on an article on the normative contestations of EU foreign policy in the EU's wider neighborhood.</i>

EMRE HATİPOĞLU (FACULTY MEMBER)

Area	<i>International Studies / Conflict Analysis and Resolution / Political Science</i>
Phone	90 (216) 483 9260
E-Mail	ehatipoglu@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/ehatipoglu/
Research Area Keywords	<i>Comparative Foreign Policy, Turkish Foreign Policy, Economic Sanctions, Energy, Social Media and Public Opinion, Interstate Conflict.</i>
Current Research Activities	<i>Dr.Hatipoğlu's most recent project on Energy Interdependence and Interstate Relations is currently being funded by grants from the Fulbright Commission and TÜBİTAK 2219. He and his colleagues recently concluded a TÜBİTAK 3001 project, which constructed a dataset on Turkey's peacekeeping operations worldwide. Dr. Hatipoğlu's final ongoing project with Dr. Saygın on Turkish Twitter and public opinion has led to numerous publications, and received an award from the Association of Turkish Market Researchers.</i>

AYŞE KADIOĞLU (FACULTY MEMBER)

Area	<i>International Studies / Political Science / European Studies</i>
Phone	90 (216) 483 9235
E-Mail	ayse@sabanciuniv.edu ; akadioglu@fas.harvard.edu
Web	http://myweb.sabanciuniv.edu/ayse/my-cv/
Research Area Keywords	<i>Hybrid Regimes, Competitive Authoritarianism, Electoral Authoritarianism.</i>
Current Research Activities	<i>Ayşe Kadioglu has been a Visiting Scholar at Harvard University, Minda de Gunzburg Center for European Studies since mid-January 2018. She has been conducting research on the discourses of new authoritarian regimes where elections coexist with authoritarian measures and the new challenges they pose for the opposition political parties especially in the cases of Turkey and Venezuela while observing the nature of democratic backsliding and the impact of the European Union processes in Poland. She has recently published an article titled "Reading John Stuart Mill in Turkey in 2017" in <i>Middle East Law and Governance</i> (10/2, 2018, pp.203-232).</i>

ÖZGE KEMAHLIOĞLU (FACULTY MEMBER)

Area	<i>International Studies / Political Science</i>
Phone	<i>90 (216) 483 9268</i>
E-Mail	<i>ozgekemah@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozgekemah/</i>
Research Area Keywords	<i>Politics of Developing Countries, Political Parties, Formal Modeling, Latin American Politics.</i>
Current Research Activities	<i>She is currently conducting reseach on clientelism in Argentina and Turkey, state spending in Brazil, party switching in Turkey, turnout in legislative elections of Turkey and electoral accountability in the gubernatorial elections of Argentina. In September 2010, she will start a new project on incumbency advantage in municipal and legislative elections of Chile and Turkey.</i>

FUAT KEYMAN (VICE PRESIDENT FOR INSTITUTIONAL AFFAIRS AND SOCIAL IMPACT, IPC DIRECTOR, FACULTY MEMBER)

Area	<i>International Studies / Conflict Analysis and Resolution / Political Science / Public Policy</i>
Phone	90 (216) 483 9115
E-Mail	fuat@sabanciuniv.edu
Web	http://ipc.sabanciuniv.edu/fuat
Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations; Turkey – EU Relations; Turkish Foreign Policy; and Civil Society Development</i>
Current Research Activities	<p><i>“Promises and Challenges of Diversity: The Role of Civil Society Initiatives in Fostering Pluralism”, Istanbul Policy Center, October 2018 (with Feyzi Baban, Hande Paker, and Kim Rygiel). ISBN: 978-605-2095-37-9</i></p> <p><i>“Social Cohesion in Turkey”, Istanbul Policy Center, June 2018 (with Aysen Ataseven and Çağla Bakış). ISBN: 978-605-2095-25-6</i></p> <p><i>“Water and Food Security in Turkey in a Changing Climate,” Istanbul Policy Center, March 2018 (with Tuğba Ağaçayak). ISBN: 978-605-2095-18-8</i></p> <p><i>Keyman, Fuat, Nora Fisher-Onar, and Susan C. Pearce, ed. Istanbul: Living with Difference in a Global City (İstanbul: Küresel Bir Şehirde Farklılıklarla Birlikte Yaşamak). February 2018.</i></p>

ARZU KIBRIS (NETWORK FACULTY MEMBER)	
Area	<i>International Studies / Gender Studies / Conflict Analysis and Resolution / Political Science</i>
Phone	<i>90 (216) 483 9255</i>
E-Mail	<i>akibris@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/akibris/</i>
Research Area Keywords	<i>Civil Conflict; Linkage Politics; Quantitative Methods; Game Theory.</i>
Current Research Activities	<i>Arzu Kibris's research interests focus on the dynamics and socio-political effects of civil conflicts, and the linkages between domestic and foreign policy. She mostly conducts empirical work, but also employs game theoretical tools in her analyses. Her current projects are about the impact of PKK's terrorist campaign on voting behavior and on educational sector in Turkey. She is also working on a game theoretical model of ethnic civil conflicts aimed at understanding the interplay between public opinion and the long duration of these conflicts.</i>

MERT MORAL (FACULTY MEMBER)

Area	<i>International Studies / Political Science</i>
Phone	<i>90 (216) 483 9240</i>
E-Mail	<i>mmoral@sabanciuniv.edu</i>
Web	<i>http://www.mertmoral.com/</i>
Research Area Keywords	<i>Electoral Behavior; Political Participation; Political Methodology; Turkish Politics; Comparative Politics.</i>
Current Research Activities	<p><i>Mert Moral's research generally focuses on the effects of political, institutional, and informational structures on electoral behavior, political participation, and democratic representation. His scholarship has been published or is forthcoming at, among others, American Journal of Political Science, Political Behavior, Political Research Quarterly, and Electoral Studies.</i></p> <p><i>He currently works on a number of manuscripts on the reciprocal relationship between party and electoral polarization, the effect of biased news media consumption on policy-specific knowledge, the variety of party policy offerings in advanced industrial democracies, the interactive effect of elite and electoral polarization on voting behavior in the American presidential elections, and the prediction and interpretation of marginal effects in interactive non-linear models.</i></p>

MELTEM MÜFTÜLER-BAÇ (FACULTY MEMBER)

Area	<i>International Studies / Political Science / European Studies</i>
Phone	<i>90 (216) 483 9247</i>
E-Mail	<i>muftuler@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/muftuler/</i>
Research Area Keywords	<i>Turkey, European Integration, Differentiated Integration, Migration, Foreign Policy, Democratization, Political Conditionality.</i>
Current Research Activities	<i>EU enlargement, European (dis)integration, parliamentary cooperation, Turkey-EU relations, foreign aid, migration governance. Currently a consortium member in two H2020 projects- InvDivEU (2019-2022)- on differentiation integration in the EU and MAGYC (2018-2022)-migration governance and asylum policies as well as advisory board member in two H2020 projects- EU-List on European foreign policy and FEUTURES- Turkey's Futures with the EU. Most recent publications are Diverging Pathways: Turkey and the European Union, Re-Thinking the Dynamics of Turkish-European Union Relations published by Barbara Budrich in 2016, "Turkey's future with the EU: Alternative modes of integration", `Turkish Studies, 2017 and "Turkey's Compliance with the European Union's Development Policy: A Pattern of External Differentiated Integration?", Journal of European Integration, 2018, co-authored with Damla Cihangir-Tetik. Muftuler-Bac holds two prestigious awards from the Turkish Academy of Sciences: Young Social Scientist Investigator Award in 2002 and Distinguished Young Scientist Award in 2003.</i>

OYA YEĞEN (VISITING FACULTY MEMBER)

Area	<i>International Studies / Political Science</i>
Phone	<i>90 (216) 483 9335</i>
E-Mail	<i>zoyayegen@sabanciuniv.edu</i>
Web	<i>www.oyayegen.com</i>
Research Area Keywords	<i>Constitutional Reform, Politics of Constitution-Making, Judicial Review, Latin American Politics, International Law, Comparative Judicial Politics.</i>
Current Research Activities	<i>The Role of International Law in the Failed Turkish Constitution-Process (2011-2013), Constitutional Borrowing in the Failed Turkish Constitution-Process (2011-2013).</i>

SEDEM AYDIN DÜZGİT (FACULTY MEMBER)

Area	<i>International Studies / European Studies / Political Science</i>
Phone	<i>90 (216) 483 9292</i>
E-Mail	<i>saduzgit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/saduzgit/</i>
Research Area Keywords	<i>European Foreign Policy, Turkish Foreign Policy, EU-Turkey Relations, Discourse Analysis, International Relations Theory, Identity and Foreign Policy.</i>
Current Research Activities	<i>Senem Aydın-Düzgüt is currently completing a project on the culture and identity dimensions of the EU-Turkey relationship funded by Horizon 2020. In January 2019 she started a new Horizon 2020 project on differentiated integration in the EU. She is currently working on a chapter on international democracy support for a book that is forthcoming from Oxford University Press, and another chapter on polarization in Turkey for a book that is forthcoming from Brookings Institution Press. On the European foreign policy front, she is working on an article on the normative contestations of EU foreign policy in the EU's wider neighborhood.</i>

AYŞE BETÜL ÇELİK (FACULTY MEMBER)

Area	<i>Political Science / Conflict Analysis and Resolution</i>
Phone	<i>90 (216) 483 9298</i>
E-Mail	<i>bcelik@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bcelik/</i>
Research Area Keywords	<i>Ethnicity and Ethnic Conflict, Civil Society and NGOs; Forced Migration; Culture and Conflict Resolution; Role of Organizations in Conflict Resolution.</i>
Current Research Activities	<i>Ayşe Betül Çelik's research interests focus around ethnicity, migration and cultural elements in conflict and conflict resolution. Recently, she is involved in projects, which study possible reconciliation attempts regarding the Kurdish Question, indigenous conflict resolution methods in blood feuds, and honor killings in southeastern Anatolia, and intercultural negotiation. She is a member of the intercultural negotiation project led by the University of Maryland, where a computer-based mediator will analyze negotiation style differences between Turkish and American students. She is also working on research analyzing the different roles played by NGOs and state actors in addressing the problems of internally displaced Kurds. She is also interested in studying the differences among Turkish political parties in their understanding of gender policies. Her recent books include <i>The Making of Neoliberal Turkey</i> (2016, Routledge), <i>Queering Sexualities in Turkey</i> (2017, IB Tauris) and <i>Kultur Denen Sey</i> (2018, Metis).</i>

**EMRE EROL (DIRECTOR FOUNDATIONS DEVELOPMENT,
FACULTY MEMBER)**

Area	<i>Political Science / History / Turkish Studies</i>
Phone	<i>90 (216) 483 9264</i>
E-Mail	<i>erolemre@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/erolemre</i>
Research Area Keywords	<i>Late 19th – Early 20th Century Ottoman/Turkish History, History of Socialisms and Nationalisms In The Ottoman Empire, Personal Histories and Ego-Documents of The Young Turks, History Of Port-Towns and Port-Cities In The Eastern Mediterranean, History of Capitalism In The Eastern Mediterranean, History of Migrations In The Ottoman Empire With Special Focus on Forced Displacement In Balkans and Western Anatolia During The Late Ottoman Period.</i>
Current Research Activities	<i>Heuristic research on the ego documents of the Unionists and Kemalists, collection and analysis of local history material on the late 19th century Ayvalık (Aivali), research on the overlapping patterns of cultural, demographic and economic pillars of the Unionists’ and Kemalists’ nation-state building projects, advanced readings on multiple modernist trajectories in the making of modern Turkey.</i>

AHMET EVİN (EMERITUS PROFESSOR)

Area	<i>Political Science / European Studies</i>
Phone	<i>90 (216) 483 9230</i>
E-Mail	<i>aevin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aevin/</i>
Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>Evin's research has centered on cultural contexts of political change, in particular the theory of the state and development of democracy as a form of state. As a Jean Monnet Professor, he has worked on policy issues relating to European enlargement and the EU's eastern partnership, their significance for Turkey and the region, as well as their effect on transatlantic relations. His research as a former senior fellow of the Transatlantic Academy focused on Turkey's foreign and energy policy in the context of Europe's energy supply security and its transatlantic implications. As a member of the Advisory Board and senior fellow of Institute of Advanced Studies-Közseg, his research focuses on current developments in Central Europe and Southeastern Europe. His more recent research interests on the "Future of the Liberal Order," has resulted in three reports, the most recent of which is "The Sliding West: Populism and Religion as Challenges to the Liberal Order" (coauthored with Megan Gisclon, published by IPC in July 2016). His most recent book "Turkey and the EU: Energy, Transport and Competition Policies" was published in the European Energy Studies Series by Claeys & Casteels (2016). Since 2017, he has taken up, as a sequel to the future of the 'Liberal Order', research on Eurasia in the context of which an initial roundtable conference was organized at DGAP, the report of which was published by IPC in 2018.</i>

KOREL GÖYMEN (EMERITUS PROFESSOR)

Area	<i>Political Science / Public Policy</i>
Phone	<i>90 (216) 483 9112</i>
E-Mail	<i>goymen@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/goymen</i>
Research Area Keywords	<i>Local, Regional, Metropolitan Governance, Local Government, Local Development, Public Policy.</i>
Current Research Activities	<i>İzmir Governance Model, Governance Scorecard of İstanbul District Municipalities, Social Sustainability of Turkish Cities.</i>

EMRE HATİPOĞLU (FACULTY MEMBER)

Area	<i>Political Science / Conflict Analysis and Resolution / International Relations</i>
Phone	<i>90 (216) 483 9260</i>
E-Mail	<i>ehatipoglu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ehatipoglu/</i>
Research Area Keywords	<i>Comparative Foreign Policy, Turkish Foreign Policy, Economic Sanctions, Energy, Social Media and Public Opinion, Interstate Conflict.</i>
Current Research Activities	<i>Dr.Hatipoğlu's most recent project on Energy Interdependence and Interstate Relations is currently being funded by grants from the Fulbright Commission and TÜBİTAK 2219. He and his colleagues recently concluded a TÜBİTAK 3001 project, which constructed a dataset on Turkey's peacekeeping operations worldwide. Dr. Hatipoğlu's final ongoing project with Dr. Saygın on Turkish Twitter and public opinion has led to numerous publications, and received an award from the Association of Turkish Market Researchers.</i>

AYŞE KADIOĞLU (FACULTY MEMBER)

Area	<i>Political Science / International Studies / European Studies</i>
Phone	<i>90 (216) 483 9235</i>
E-Mail	<i>ayse@sabanciuniv.edu; akadioglu@fas.harvard.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ayse/my-cv/</i>
Research Area Keywords	<i>Hybrid Regimes, Competitive Authoritarianism, Electoral Authoritarianism.</i>
Current Research Activities	<i>Ayşe Kadioglu has been a Visiting Scholar at Harvard University, Minda de Gunzburg Center for European Studies since mid-January 2018. She has been conducting research on the discourses of new authoritarian regimes where elections coexist with authoritarian measures and the new challenges they pose for the opposition political parties especially in the cases of Turkey and Venezuela while observing the nature of democratic backsliding and the impact of the European Union processes in Poland. She has recently published an article titled "Reading John Stuart Mill in Turkey in 2017" in Middle East Law and Governance (10/2, 2018, pp.203-232).</i>

ERSİN MAHMUT KALAYCIOĞLU (EMERITUS PROFESSOR)	
Area	<i>Political Science / Turkish Studies</i>
Phone	<i>90 (216) 483 9345</i>
E-Mail	<i>kalaycie@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kalaycie/</i>
Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior, Political Culture.</i>
Current Research Activities	<i>Kalaycioğlu published research reports on field surveys conducted in 2017 on “State – Citizen Interface in Turkey,” (in English) which is the application of the International Social Survey Program (ISSP) Role of Government Survey 2015, and “Work Orientation,” (in Turkish) which is the application of the ISSP, Work Orientation Survey of 2016, both co-authored with Ali Çakaroğlu in February 2018, at the Istanbul Policy Center (IPC) web site under Reports. Kalaycioğlu has also published an article on the two 2015 elections: “Two elections and a political regime in crisis: Turkish politics at the crossroads,” Southeast European and Black Sea Studies, 18:1, 21-51 and is currently publishing a report on “Nationalism in Turkey and The World,” which was prepared as part of the International Social Survey Program (ISSP). He also conducted a national field survey during the pre and post - June 2018 General Elections with Ali Çarkoğlu, Mert Moral, and Erdem Aytaç. Kalaycioğlu is currently working on the field surveys for the ISSP Social Networks (2017) and ISSP Religiosity (2018) with Ali Çarkoğlu of Koç University.</i>

ÖZGE KEMAHLIOĞLU (FACULTY MEMBER)

Area	<i>Political Science / International Studies</i>
Phone	<i>90 (216) 483 9268</i>
E-Mail	<i>ozgekemah@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozgekemah/</i>
Research Area Keywords	<i>Politics of Developing Countries, Political Parties, Formal Modeling, Latin American Politics.</i>
Current Research Activities	<i>She is currently conducting reseach on clientelism in Argentina and Turkey, state spending in Brazil, party switching in Turkey, turnout in legislative elections of Turkey and electoral accountability in the gubernatorial elections of Argentina. In September 2010, she started a new project on incumbency advantage in municipal and legislative elections of Chile and Turkey.</i>

FUAT KEYMAN (VICE PRESIDENT FOR INSTITUTIONAL AFFAIRS AND SOCIAL IMPACT, IPC DIRECTOR, FACULTY MEMBER)

Area	<i>Political Science / International Studies / Conflict Analysis and Resolution / Public Policy</i>
Phone	90 (216) 483 9115
E-Mail	fuat@sabanciuniv.edu
Web	http://ipc.sabanciuniv.edu/fuat
Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations; Turkey – EU Relations; Turkish Foreign Policy; and Civil Society Development.</i>
Current Research Activities	<p><i>“Promises and Challenges of Diversity: The Role of Civil Society Initiatives in Fostering Pluralism”, Istanbul Policy Center, October 2018 (with Feyzi Baban, Hande Paker, and Kim Rygiel). ISBN: 978-605-2095-37-9</i></p> <p><i>“Social Cohesion in Turkey”, Istanbul Policy Center, June 2018 (with Aysen Ataseven and Çağla Bakış). ISBN: 978-605-2095-25-6</i></p> <p><i>“Water and Food Security in Turkey in a Changing Climate,” Istanbul Policy Center, March 2018 (with Tuğba Ağaçayak). ISBN: 978-605-2095-18-8</i></p> <p><i>Keyman, Fuat, Nora Fisher-Onar, and Susan C. Pearce, ed. Istanbul: Living with Difference in a Global City (İstanbul: Küresel Bir Şehirde Farklılıklarla Birlikte Yaşamak). February 2018.</i></p>

ARZU KIBRIS (NETWORK FACULTY MEMBER)

Area	<i>Political Science / Conflict Analysis and Resolution / International Studies</i>
Phone	<i>90 (216) 483 9255</i>
E-Mail	<i>akibris@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/akibris/</i>
Research Area Keywords	<i>Civil Conflict; Linkage Politics; Quantitative Methods; Game Theory.</i>
Current Research Activities	<i>Arzu Kibris's research interests focus on the dynamics and socio-political effects of civil conflicts, and the linkages between domestic and foreign policy. She mostly conducts empirical work, but also employs game theoretical tools in her analyses. Her current projects are about the impact of PKK's terrorist campaign on voting behavior and on educational sector in Turkey. She is also working on a game theoretical model of ethnic civil conflicts aimed at understanding the interplay between public opinion and the long duration of these conflicts.</i>

FAİK KURTULMUŞ (FACULTY MEMBER)

Area	<i>Political Science / Cultural Studies / Philosophy</i>
Phone	<i>90 (216) 483 9282</i>
E-Mail	<i>afaikkurtulmus@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/afaikkurtulmus/</i>
Research Area Keywords	<i>Political Philosophy, Social Epistemology, Distributive Justice, Political Epistemology.</i>
Current Research Activities	<i>I am interested in issues that lie at the intersection of social epistemology and political philosophy, such as questions of justice in the distribution of knowledge and the role of science in democratic societies.</i>

MERT MORAL (FACULTY MEMBER)

Area	<i>Political Science / International Studies</i>
Phone	<i>90 (216) 483 9240</i>
E-Mail	<i>mmoral@sabanciuniv.edu</i>
Web	<i>http://www.mertmoral.com/</i>
Research Area Keywords	<i>Electoral Behavior; Political Participation; Political Methodology; Turkish Politics; Comparative Politics.</i>
Current Research Activities	<p><i>Mert Moral's research generally focuses on the effects of political, institutional, and informational structures on electoral behavior, political participation, and democratic representation. His scholarship has been published or is forthcoming at, among others, American Journal of Political Science, Political Behavior, Political Research Quarterly, and Electoral Studies.</i></p> <p><i>He is currently working on a number of manuscripts on the reciprocal relationship between party and electoral polarization, the effect of biased news media consumption on policy-specific knowledge, the variety of party policy offerings in advanced industrial democracies, the interactive effect of elite and electoral polarization on voting behavior in the American presidential elections, and the prediction and interpretation of marginal effects in interactive non-linear models.</i></p>

MELTEM MÜFTÜLER-BAÇ (FACULTY MEMBER)

Area	<i>Political Science / International Studies / European Studies</i>
Phone	<i>90 (216) 483 9247</i>
E-Mail	<i>muftuler@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/muftuler/</i>
Research Area Keywords	<i>Turkey, European Integration, Differentiated Integration, Migration, Foreign Policy, Democratization, Political Conditionality.</i>
Current Research Activities	<i>EU enlargement, European (dis)integration, parliamentary cooperation, Turkey-EU relations, foreign aid, migration governance. Currently a consortium member in two H2020 projects- InvDivEU (2019-2022)- on differentiation integration in the EU and MAGYC (2018-2022)-migration governance and asylum policies as well as advisory board member in two H2020 projects- EU-List on European foreign policy and FEUTURES- Turkey's Futures with the EU. Most recent publications are Diverging Pathways: Turkey and the European Union, Re-Thinking the Dynamics of Turkish-European Union Relations published by Barbara Budrich in 2016, "Turkey's future with the EU: Alternative modes of integration", `Turkish Studies, 2017 and "Turkey's Compliance with the European Union's Development Policy: A Pattern of External Differentiated Integration?", Journal of European Integration, 2018, co-authored with Damla Cihangir-Tetik. Muftuler-Bac holds two prestigious awards from the Turkish Academy of Sciences: Young Social Scientist Investigator Award in 2002 and Distinguished Young Scientist Award in 2003.</i>

NEDİM NOMER (FACULTY MEMBER)

Area	<i>Political Science / Philosophy</i>
Phone	<i>90 (216) 483 9327</i>
E-Mail	<i>nnomer@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nnomer/</i>
Research Area Keywords	<i>Political and Moral Theory; Theories of Rights; 19th Century German Philosophy; Aesthetics; Political Psychology.</i>
Current Research Activities	<i>I work in the general areas of political philosophy and the history of political ideas. The basic concern that motivates my research is to understand the place of concepts in political action as well as in political thinking. Until recently my research was focused on the the writings of 19th century German political thinkers. Some of my work appeared in the Journal of Political Philosophy and the Journal of History of Philosophy. Recently I began working on the early 20th century Turkish political thought, and especially on Ziya Gokalp and H.E.Adivar.</i>

OYA YEĞEN (VISITING FACULTY MEMBER)

Area	<i>Political Science / International Studies</i>
Phone	<i>90 (216) 483 9335</i>
E-Mail	<i>zoyayegen@sabanciuniv.edu</i>
Web	<i>www.oyayegen.com</i>
Research Area Keywords	<i>Constitutional Reform, Politics of Constitution-Making, Judicial Review, Latin American Politics, International Law, Comparative Judicial Politics.</i>
Current Research Activities	<i>The Role of International Law in the Failed Turkish Constitution-Process (2011-2013), Constitutional Borrowing in the Failed Turkish Constitution-Process (2011-2013).</i>

NIHAN ALP (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 3184</i>
E-Mail	<i>nihanalp@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nihanalp/</i>
Research Area Keywords	<i>Perceptual Organization, Vision, Biological Motion, EEG, SSVEP, Frequency Tagging.</i>
Current Research Activities	<i>Nihan Alp's research interests mainly lie in perceptual organization. The visual system has the challenging task of reconstructing retinal input into meaningful representations by first extracting basic features, such as form, motion, color, etc., and then evaluating them within their given context. Her research focuses on understanding how the brain is capable of integrating these basic features into coherent wholes. In other words, the goal of her research is to understand how the visual system combines local properties of the visual scene (e.g., elements, features, parts) in order to obtain holistic representations (e.g., patterns, objects, wholes). By using electrophysiological measures (electroencephalography – EEG), she wants to increase our knowledge on the cortical mechanisms that are involved in this holistic processing. In light of this, she uses direct, but non-invasive measures of the brain's electrical activity in combination with psychophysics. She investigates how the brain integrates feature-based information to construct the coherent percept at the multiple levels of the visual cortical hierarchy. Her most recent work (supported by both FWO and JuMo) disentangles the non-linear neural processes underlying symmetry perception from the non-linear neural processes associated with each stimulus part. This study reveals the presence of integration mechanisms specific to reflection symmetry (Alp et al., 2018) which have implications for understanding the neural dynamics of spatial integration during symmetry perception. Additionally, her work also provides an objective signature of neural processes involved in the emergence of illusory surface perception (Alp et al., 2016). Moreover, her work also focuses on more complex processes (such as perception of biological motion) in order to better understand underlying neural processes in the dynamic input (Alp et al., 2017). As part of her research, she is also developing a new experimental design for testing more complex visual stimuli. Currently, she is working on developing a stimulus set in order to test configural superiority effect at its different stages.</i>

ÇAĞLA AYDIN (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9130</i>
E-Mail	<i>caglaaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/caglaaydin/</i>
Research Area Keywords	<i>Social Cognition, Language And Theory Of Mind Development, Source Memory, Memory And Metamemory Development.</i>
Current Research Activities	<i>Çagla Aydın's research interests are directed at two lines of inquiry related to cognition in social context. Specifically, her current work focuses on social cognition; development of skills such as understanding of other minds, judgments of credibility of information sources and detection of misinformation. Another line of interest focuses on metacognition and memory –awareness people have about their own recollective processes.</i>

ÇİĞDEM BAĞCI (FACULTY MEMBER)

Area	<i>Psychology / Conflict Analysis and Resolution</i>
Phone	<i>90 (216) 483 9275</i>
E-Mail	<i>cigdem.bagci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Group Processes and Intergroup Relationships; Intergroup Contact; Social Identity; Prejudice; Discrimination; Self-efficacy; Minority Groups; Immigration</i>
Current Research Activities	

OLESYA BLAZHENKOVA (FACULTY MEMBER)	
Area	<i>Psychology</i>
Phone	<i>90 (216) 483 3183</i>
E-Mail	<i>olesya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/olesya/</i>
Research Area Keywords	<i>Visual-Spatial Cognition; Visual Imagery; Visualization Abilities; Individual Differences.</i>
Current Research Activities	<i>My research focuses on individual differences in visualization abilities and styles, from both theoretical and applied perspectives. It investigates the dissociation between different types of visualization among individuals of different ages and specializations. Specifically, I am interested in the differences between object visualization (representation and processing of the literal appearances of objects in terms of their pictorial properties such as shape, color, and texture) and spatial visualization (representation and processing of spatial relations, locations of objects in space, and spatial transformations). My research includes studies with children, college students and members of different professions that involve group, individual, quantitative and qualitative assessment.</i>

ROBERT W. BOOTH (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9242</i>
E-Mail	<i>robertbooth@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/robertbooth/</i>
Research Area Keywords	<i>Cognition and Emotion; Experimental Psychopathology; Psychiatric Epidemiology.</i>
Current Research Activities	<i>Rob Booth studies interactions between cognitive processes and emotions, with a special focus on how anxiety, stress, and fear interact with attention, working memory, and executive control. He is particularly interested in developing more valid, clinically-useful measures of the cognitive features of affective disorders. Rob Booth studies interactions between cognitive processes and emotions, with a special focus on how anxiety, stress, and fear interact with attention, working memory, and executive control. He is particularly interested in developing more valid, clinically-useful measures of the cognitive features of affective disorders.</i>

ASUMAN BÜYÜKCAN TETİK (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9122</i>
E-Mail	<i>asumanbt@sabanciuniv.edu</i>
Web	<i>https://sites.google.com/site/asumanbuyukcantetik/home</i>
Research Area Keywords	<i>Interpersonal Relationships, Romantic Relationships, Self-Control, Wellbeing.</i>
Current Research Activities	<i>Asuman Buyukcan Tetik's research integrates social, clinical, and developmental psychology. Her research focuses on interpersonal relationships, mostly close relationships (i.e., marriages, dating relationships, and parent-child relationships). Some of the topics she is currently working on include, but are not limited to, the role of ideal partner standards in relationship satisfaction, the predictors and consequences of intrusive behaviors toward the partner, and the growth of forgiveness in marriages.</i>

GÜL GÜNAYDIN (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9318</i>
E-Mail	<i>gul.gunaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulgunaydin</i>
Research Area Keywords	<i>Interpersonal Relationships, Impression Formation, Mate Selection, Responsiveness, Attachment, Well-being.</i>
Current Research Activities	

JUNKO KANERO (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9273</i>
E-Mail	<i>jkanero@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/jkanero</i>
Research Area Keywords	<i>Developmental Psychology, Psycholinguistics, Cognitive Psychology, Neuroscience, Human-Robot Interaction.</i>
Current Research Activities	<i>Junko Kanero's research uses language as a window into human cognition. She is interested in language development in infancy and childhood, neural processing of language, and how language and non-linguistic cognition interact. Her current research focuses on how children and adults learn language and how language affects other cognitive functions such as attention and memory. She also conducts research in human-robot interaction and explores how social robots and other digital devices can facilitate language learning.</i>

EMRE SELÇUK (FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9260</i>
E-Mail	<i>emre.selcuk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/emreselcuk</i>
Research Area Keywords	<i>Attachment, Close Relationships, Happiness, Marriage, Mate Selection, Person Perception, Responsiveness, Well-being.</i>
Current Research Activities	

NEBİ SÜMER (VISITING FACULTY MEMBER)

Area	<i>Psychology</i>
Phone	<i>90 (216) 483 9320</i>
E-Mail	<i>nebisumer@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nebisumer/</i>
Research Area Keywords	<i>Attachment and Close Relationships; Traffic and Transportation Psychology; Effects of Unemployment; Teaching of Psychology, Psychometric Assessment.</i>
Current Research Activities	<p><i>Nebi Sümer's current research interests focus on three different areas: close relationships, transportation psychology, and effects of unemployment. On the close relationships side, he investigates the lifespan effects of attachment (in)security and parenting behaviors on a number of outcome behaviors and interpersonal processes, mostly with an emphasis on potential cultural aspects and implications. He completed several projects in this arena. The most recent project (TUBITAK, 1001) he completed in 2017 was on adapting an intervention program aiming to enhance maternal sensitivity (Video-feedback Intervention to promote Positive Parenting, VIPP) that is used by practitioners as well as researchers. He has recently received an extensive TUBITAK 1003 project, titled "Socio-cultural and Psychological Antecedents and Consequences of Child-rearing Styles Across Generations and Developmental Stages in Turkey". On the traffic and transportation field, he has conducted both basic and applied research aiming to understand and mitigate aberrant driving behaviors.</i></p> <p><i>Finally, he has involved in studying the effects of unemployment and job insecurity and have written a book on this issue [Sümer, N., Solak, N., & Harma, M. (2013). İşsiz Yaşam: İşsizliğin ve İş Güvencesizliğinin Birey ve Aile Üzerindeki Etkileri. Koç Üniversitesi Yayınları, İstanbul.]. He was one of consultants of a European project on youth unemployment, titled "Cultural Pathways to Economic Self-Sufficiency and Entrepreneurship" (CUPESSE) funded by Seventh Framework Program and completed in January 2018. He is preparing manuscripts with other collaborators on work values across Europe from the CUPESSE project.</i></p>

İZAK ATİYAS (DIRECTOR FOR TUSIAD, SABANCI UNIVERSITY COMPETITIVENESS FORUM, FACULTY MEMBER)

Area	<i>Public Policy / European Studies / Economics</i>
Phone	<i>90 (216) 483 9241</i>
E-Mail	<i>izak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/izak/</i>
Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My current research areas are competition law and policy, regulation in telecommunications and electricity industries, and privatization. In the field of competition law, I am currently conducting a TUBITAK-sponsored Project on the Examination of Competition Board Decisions from the Perspective of Law and Economics. The decisions of the Competition Board are examined with two objectives in mind: the first is to evaluate the extent and sophistication of economic analysis they contain. The second is to compare them with the decisions undertaken in the application of competition law in the European Union. In the field of regulation, I am studying the interaction between ex-ante regulation and ex-post enforcement of competition law in the telecommunications industry. In electricity regulation, I am writing a paper on the general assessment of restructuring in the electricity industry in Turkey. In privatization, I have recently published a book chapter on the assessment of the recent privatization experience in Turkey.</i>

ABDURRAHMAN AYDEMİR (FACULTY MEMBER)

Area	<i>Public Policy / Economics</i>
Phone	<i>90 (216) 483 9344</i>
E-Mail	<i>aaydemir@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~aaydemir/</i>
Research Area Keywords	<i>Applied Microeconomics; Labour Economics; Migration; Education.</i>
Current Research Activities	<i>Abdurrahman Aydemir's research focuses on immigration, education, and intergenerational mobility. He is currently working on a number of projects that investigate the role of ethnic networks on human capital investments, the labor market outcomes of Turkish immigrants across Europe, and the impact of the change in compulsory schooling laws on educational attainment and labor market outcomes in Turkey.</i>

MEHMET BAÇ (FACULTY MEMBER)

Area	<i>Public Policy / Economics</i>
Phone	<i>90 (216) 483 9257</i>
E-Mail	<i>bac@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bac/</i>
Research Area Keywords	<i>Microeconomics; Industrial Organization; Law and Economics.</i>
Current Research Activities	<i>Recent papers focus on the following topics: (a) Theoretical analysis of the interaction between the defensive and offensive demands for guns, optimal gun control policies; (b) The equilibrium analysis of opinion expressions under social sanctions imposed by the majority, dominant, culture, (c) Emergence of old-boy networks of entrepreneurs and their welfare effects (with Eren Inci), (d) Prohibition policies when goods can be offered as bribes and gifts.</i>

KOREL GÖYMEN (EMERITUS PROFESSOR)

Area	<i>Public Policy / Political Science</i>
Phone	<i>90 (216) 483 9112</i>
E-Mail	<i>goymen@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/goymen</i>
Research Area Keywords	<i>Local, Regional, Metropolitan Governance, Local Government, Local Development, Public Policy.</i>
Current Research Activities	<i>İzmir Governance Model, Governance Scorecard of İstanbul District Municipalities, Social Sustainability of Turkish Cities.</i>

EREN İNCİ (VICE DEAN, FACULTY MEMBER)

Area	<i>Public Policy / Economics</i>
Phone	<i>90 (216) 483 9340</i>
E-Mail	<i>ereninci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ereninci/</i>
Research Area Keywords	<i>Urban Economics, Transportation Economics, Public Economics, Industrial Organization.</i>
Current Research Activities	<i>Eren İnci's current research projects concentrate on the economics of parking, which considers optimal pricing of and land allocation for parking. If parking is not priced properly, its costs are embedded in the price of everything else in the city. Traffic congestion worsens due to cars cruising for parking; shopping malls provide parking for free, but then reflect parking costs in the price of goods and services sold at the mall, and housing prices are inflated due to free on-street parking. Dr. İnci's work investigates such cases and searches for optimal parking policy.</i>

FUAT KEYMAN (VICE PRESIDENT FOR INSTITUTIONAL AFFAIRS AND SOCIAL IMPACT, IPC DIRECTOR, FACULTY MEMBER)

Area	<i>Public Policy / International Studies / Conflict Analysis and Resolution / Political Science</i>
Phone	90 (216) 483 9115
E-Mail	fuat@sabanciuniv.edu
Web	http://ipc.sabanciuniv.edu/fuat
Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations; Turkey – EU Relations; Turkish Foreign Policy; and Civil Society Development.</i>
Current Research Activities	<p><i>“Promises and Challenges of Diversity: The Role of Civil Society Initiatives in Fostering Pluralism”, Istanbul Policy Center, October 2018 (with Feyzi Baban, Hande Paker, and Kim Rygiel). ISBN: 978-605-2095-37-9</i></p> <p><i>“Social Cohesion in Turkey”, Istanbul Policy Center, June 2018 (with Aysen Ataseven and Çağla Bakış). ISBN: 978-605-2095-25-6</i></p> <p><i>“Water and Food Security in Turkey in a Changing Climate,” Istanbul Policy Center, March 2018 (with Tuğba Ağaçayak). ISBN: 978-605-2095-18-8</i></p> <p><i>Keyman, Fuat, Nora Fisher-Onar, and Susan C. Pearce, ed. Istanbul: Living with Difference in a Global City (İstanbul: Küresel Bir Şehirde Farklılıklarla Birlikte Yaşamak). February 2018.</i></p>

HAKKI YAZICI (FACULTY MEMBER)

Area	<i>Public Policy / Economics</i>
Phone	<i>90 (216) 483 9331</i>
E-Mail	<i>hakkiyazici@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hakkiyazici/</i>
Research Area Keywords	<i>Macroeconomics; Public Finance.</i>
Current Research Activities	<i>Hakki Yazıcı's primary fields of research are Macroeconomics and Public Finance. Currently, he is especially interested in optimal education policy. He is working on how to design public programs to provide equality of opportunity for children from poor families with Prof. Nicola Pavoni of University College London and Tommy Leung of Chinese University of Hong Kong.</i>

HÜLYA ADAK (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>Turkish Studies / Gender Studies / Cultural Studies / European Studies</i>
Phone	<i>90 (216) 483 9287</i>
E-Mail	<i>hadak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hadak/</i>
Research Area Keywords	<i>Literary Theory; Nationalism; Gender and Sexuality; Theories of Autobiography; British, French and Turkish Novel; Modern Drama.</i>
Current Research Activities	<i>In collaboration with a group of colleagues from Duke University, University of Texas-Austin, and Northwestern University, Adak received a grant from the British Arts and Humanities Research Council to conduct the project "Women's Autobiographies in Islamic Societies." As part of this three-year long project terminating in 2012, she completed a book on the work of Halide EdibAdivar. In the summer of 2010, she planned to complete a book on National Myths of Turkey analyzing political memoirs. The special dossier of New Perspectives on Turkey (SSCI) on "gender and ethnicity" for which she is the guest editor will be published in May 2010. The anthology Adak prepared with Prof. Erika Glassen (FreiburgUniversity), <i>ModerneTürkische Geschichte</i>, explores key social and cultural events of the twentieth century through a series of heretofore-dismissed, yet quite significant, auto/biographical sources. The German version was published in the summer of 2010. Erika Glassen and Hülya Adak would like to expand the anthology and publish it in Turkish in Turkey. The book <i>işte böyle güzelim...</i> based on interviews with women from Turkey and Germany on sexuality was published in 2008, and the German translation <i>so ist das, meine Schöne...</i> was published by Orlanda Frauenverlag in 2009. The long-term goals of the project consist of preparing a second book including current interviews on sexuality, and publishing an edited volume (an academic book) on "feminism, sexuality and theater" in Turkey. Adak's forthcoming book is entitled 'Confrontations across the Genocidal Divide: Turkish and Armenian Literatures in Turkey and in Diaspora.</i>

HÜLYA CANBAKAL (NETWORK FACULTY MEMBER)

Area	<i>Turkish Studies / History</i>
Phone	<i>90 (216) 483 9240</i>
E-Mail	<i>hcanbakal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hcanbakal/</i>
Research Area Keywords	<i>Early Modern Ottoman History; Urban History; Legal Culture; Political Culture; Social and Economic History.</i>
Current Research Activities	<i>18th-century Rebellions in South Eastern Anatolia and Northern Syria; Distribution of Wealth in the Ottoman Empire (1500-1840); Household Patterns in the Ottoman Empire (1500-1840); Labor Relations in the Ottoman Empire (1500-1840)</i>

HAKAN ERDEM (FACULTY MEMBER)

Area	<i>Turkish Studies / History</i>
Phone	<i>90 (216) 483 9295</i>
E-Mail	<i>erdemy@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~erdemy/</i>
Research Area Keywords	<i>History of Ottoman Slavery, Modern State Construction in the Late Ottoman Empire; Repercussions of the Greek War of Independence in the Ottoman Empire; Introduction of the New Conscript Army, Transformation of Ottoman Political Language and Culture.</i>
Current Research Activities	<i>A Documentary History of the Greek Revolution from the Ottoman Archives (book); Selim III: The Sultan with Two States (book); Magic, Theft and Arson: The Life and Death of an Enslaved African Woman in Ottoman Izmit (Article/book).</i>

EMRE EROL (FDP DIRECTOR, FACULTY MEMBER)

Area	<i>Turkish Studies / History / Political Science</i>
Phone	<i>90 (216) 483 9264</i>
E-Mail	<i>erolemre@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/erolemre</i>
Research Area Keywords	<i>Late 19th – Early 20th Century Ottoman/Turkish History, History of Socialisms and Nationalisms in the Ottoman Empire, Personal Histories and Ego-Documents of the Young Turks, History of Port-Towns and Port-Cities in the Eastern Mediterranean, History of Capitalism in the Eastern Mediterranean, History of Migrations in the Ottoman Empire With Special Focus on Forced Displacement in Balkans and Western Anatolia During the Late Ottoman Period.</i>
Current Research Activities	<i>Heuristic research on the ego documents of the Unionists and Kemalists, collection and analysis of local history material on the late 19th century Ayvalık (Aivali), research on the overlapping patterns of cultural, demographic and economic pillars of the Unionists' and Kemalists' nation-state building projects, advanced readings on multiple modernist trajectories in the making of modern Turkey.</i>

ERSİN MAHMUT KALAYCIOĞLU (EMERITUS PROFESSOR)	
Area	<i>Turkish Studies / Political Science</i>
Phone	<i>90 (216) 483 9345</i>
E-Mail	<i>kalaycie@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kalaycie/</i>
Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior, Political Culture.</i>
Current Research Activities	<i>Kalaycioğlu published research reports on field surveys conducted in 2017 on “State – Citizen Interface in Turkey,” (in English) which is the application of the International Social Survey Program (ISSP) Role of Government Survey 2015, and “Work Orientation,” (in Turkish) which is the application of the ISSP, Work Orientation Survey of 2016, both co-authored with Ali Çakaroğlu in February 2018, at the Istanbul Policy Center (IPC) web site under Reports. Kalaycioğlu has also published an article on the two 2015 elections: “Two elections and a political regime in crisis: Turkish politics at the crossroads,” Southeast European and Black Sea Studies, 18:1, 21-51 and is currently publishing a report on “Nationalism in Turkey and The World,” which was prepared as part of the International Social Survey Program (ISSP). He also conducted a national field survey during the pre and post - June 2018 General Elections with Ali Çarkoğlu, Mert Moral, and Erdem Aytaç. Kalaycioğlu is currently working on the field surveys for the ISSP Social Networks (2017) and ISSP Religiosity (2018) with Ali Çarkoğlu of Koç University.</i>

CEMİL KOÇAK (FACULTY MEMBER)

Area	<i>Turkish Studies / History</i>
Phone	<i>90 (216) 483 9239</i>
E-Mail	<i>ckocak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ckocak/</i>
Research Area Keywords	<i>Turkish Political History; Turkish Foreign Policy; Historical Writing and Methodology.</i>
Current Research Activities	<i>Turkish political history; history of Turkish foreign policy (turkish-american diplomatic relations after Second World War); Historiography; methodology of the discipline of history.</i>

AYŞE OZİL (FACULTY MEMBER)

Area	<i>Turkish Studies / History</i>
Phone	<i>90 (216) 483 9288</i>
E-Mail	<i>ayseozil@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ayseozil/</i>
Research Area Keywords	<i>Late Ottoman History, Social and Urban History, Nationalism, Ethno-Religious Communities, Minority Questions, Ottoman-Greek Studies, Modern Greek History.</i>
Current Research Activities	<i>Ayşe Ozil specializes in the history of the Greek communities in the late Ottoman Empire. She has published on the modernization of Greek education in the nineteenth century, educational policies of the early republican period, the contribution of Greek communities to the urban development of Istanbul, and the political experiences of western Anatolian Greeks in the First World War. Her monograph, entitled <i>Orthodox Christians in the Late Ottoman Empire: A Study of Communal Relations in Anatolia</i> (London: Routledge, 2013) deals with issues of communal belonging through an examination of institutional, legal and administrative matters involving Ottoman Greeks. A Turkish edition of the monograph has recently been published under the title, <i>Anadolu Rumları: Osmanlı İmparatorluğu'nun Son Döneminde Millet Sistemini Yeniden Düşünmek</i> (Istanbul: Kitap Yayınevi, 2016). She is currently working on the urban history of late Ottoman Istanbul and is contributing to a collaborative project on the modernization of the city.</i>

AKŞİN SOMEL (FACULTY MEMBER)

Area	Turkish Studies / History
Phone	90 (216) 483 9278
E-Mail	somel@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/somel/
Research Area Keywords	<i>Education During Ottoman Reform Era; Modernization of Ottoman Bureaucracy; Historical Statistics of Istanbul; Relationship Between Center and Periphery; Gender Issues During Late Ottoman Era.</i>
Current Research Activities	<p><i>Since 2017, I have been working on two books. One of them is a joint-project with Tarih Vakfı to write a history of the Özel Alman Lisesi (Deutsche Schule Istanbul). The other is a book on the biographies of Ottoman grand viziers of the reform era. At the same time, I have been involved in the editorship process of two books: The first one, together with Alexandre Toumarkine & Mehmet Beşikçi, is titled Not All Quiet on the Ottoman Fronts: A Social History of World War I, 1914-18 (forthcoming at the Cambridge University Press). The other is prepared with Seyfi Kenan, and titled Patterns of Transformation in the Ottoman Empire (From the Late Medieval Age to the Modernity): Festschrift for Metin Kunt (forthcoming at the E.J.Brill Publishers).</i></p> <p><i>Two book chapters are under preparation; one is titled "Hakan-ı Rum or Yavuz Sultan Selim – Throne of Joseph or Grand Islamic Caliphate? Some Observations on Changing Ottoman Turkish Perceptions of the Conquest of the Mamluk Lands from 1520 to 1920" This chapter is forthcoming within the volume titled Transformation of the Middle East by Selim I. 500th Anniversary of the Conquest of Syria and Egypt by the Ottoman Empire. Abdurrahim Abu-Husayn (ed.) (Beirut: American University of Beirut Press). The other chapter is titled "Autonomous Dynamics of Cultural Modernization at the Provincial Level: Muslim Private Educational Initiatives in the Ottoman Provinces (1856-1908)". This chapter is forthcoming within the volume titled From Subject to Nation: Conscripted, Education, and Welfare in the Nineteenth and Early Twentieth Century Ottoman Empire. Kaori Komatsu & Kiyohiko Hasebe (eds.) (Tokyo: Waseda University Press).</i></p> <p><i>In 2017-18 I completed the encyclopedia entry "Mehmed Tahir Münif Paşa", published in the Encyclopedia of Islam. Third Edition (Leiden: E.J.Brill Publishers).</i></p>

ERDAĞ AKSEL (EMERITUS PROFESSOR)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9249</i>
E-Mail	<i>aksel@sabanciuniv.edu</i>
Web	<i>http://www.nesneler.com/</i>
Research Area Keywords	<i>Visual Arts; Painting; Sculpture Photography Installations; Visual Literacy; Foundations Studies in Visual Art and Visual Communication.</i>
Current Research Activities	<i>Site-specific installations with a particular broad approach to the notion of site that allows political, sociological and psychological aspects of 'site' integrated into the installation, unbound from the mere physical or visual characteristics. Current work also involves 3-D modeling of sculpture drawings that will not be produced, to be exhibited in modeled 3-D museums that do not exist.</i>

SELÇUK ARTUT (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9319</i>
E-Mail	<i>sartut@sabanciuniv.edu</i>
Web	<i>http://www.selcukartut.com</i>
Research Area Keywords	<i>Interactive Arts and Design, Physical Computing, Sonic Arts, Art and Technology, Electronic Arts, Sound Design, Creative Coding.</i>
Current Research Activities	<i>Recent research focuses on building interactive systems based on Human Technology Interactions, Using Computer Programming for Creative Arts and Design, Embedded Interactive Systems, Live Coding for Audio Visual Experiences, Experience Marketing Interactions, Computer Graphics & Visualization.</i>

ELİF AYİTER (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9289</i>
E-Mail	<i>ayiter@sabanciuniv.edu</i>
Web	<i>http://www.elifayiter.com/</i>
Research Area Keywords	<i>Cyberworlds, Virtual worlds, Avatars, Theory of Artistic Practice, Practice Led Research.</i>
Current Research Activities	<p><i>I am currently working on a chapter for a book entitled "Modified" edited by Chris Hables Gray, Heidi Figueroa Sarriera and Steven Mentor which will be published by Routledge in 2019.</i></p> <p><i>I am also working on two full articles and will be submitting them to appropriate journals over the next few months. One of these addresses the issue of place versus non-place in online virtual worlds while the other is a discussion of the interdisciplinary course CS450 which Selim Balcısoy, Murat Germen and I co-taught at Sabancı University between 2005 and 2018.</i></p> <p><i>I am on the scientific committee for the upcoming Consciousness Reframed conference which will be held in the Universidade Católica Portuguesa in Porto, Portugal in 2019.</i></p>

SELİM BİRSEL (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9248</i>
E-Mail	<i>selim@sabanciuniv.edu</i>
Web	<i>http://www.selimbirsel.com/</i>
Research Area Keywords	<i>Painting; Sculpture; Installation; Video; Photography; Performace in Art; Exhibition Organisation.</i>
Current Research Activities	<i>'Cabinet' as artist studio, 'Flaneurie' and 'Rhizome' as being, interactions with the visitor, play, use of multi disciplinary creation language as medium, human movement throughout history due to social, economic, ecologic, conflits reasons. What do they drain, the remains, the traces, from a personal view point are subjects to my current research areas.</i>

MURAT GERMEN (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9281</i>
E-Mail	<i>muratgermen@sabanciuniv.edu</i>
Web	<i>http://www.muratgermen.com/ http://myweb.sabanciuniv.edu/muratgermen/</i>
Research Area Keywords	<i>Gentrification, Urbanization, Real Estate Development, Dividing Vs. Unifying Cities, Civic Rights, Urban Activism, Architectural And Cultural Heritage, Sustainability Of Local Cultures, Ecology, Water Rights, Energy, Issues Of Contemporary Photography, Documentation, Archiving, Aerial Photography, Digital Imaging, Panoramic Photography, Photographic Memory, Ways Of Seeing And Representing, Independent Artistic Practice, Resistance.</i>
Current Research Activities	<i>Murat Germen's oeuvre focuses on impacts of urbanization and gentrification, civic rights and participatory citizenship, documentary sustainability of local cultures, devastation of nature caused by humankind. Cities are arenas in which inhabitants shape their idiosyncratic mode of living and their shelters. They happen to be the reflection of the societies that erected them; you can read into a culture from the settlements they built / build. They are open air anthropology / ethnography museums where you can observe the "real" soul, in other words the "genius loci." Germen sees producing documentary / fictitious works on the sustainability of cultural, architectural heritage and memory as a form of activism and resistance. While doing this, he aims to defamiliarize ordinariness and make the resulting visuality provide the basis for an unexpected perception.</i>

MELTEM IŞIK (VISITING FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9342</i>
E-Mail	<i>misik@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Visual Literacy Education, Basic Design Education, Design Foundation Program, Digital Design Tools.</i>
Current Research Activities	<i>Integration of digital tools into visual literacy education and the design foundation program.</i>

GÖZDE ORAL (VISITING FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9000</i>
E-Mail	<i>gozdeoral@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Graphic Design, Visual Communication.</i>
Current Research Activities	<i>Graphic Design, Design Thinking, Information Design, Exhibition Design, Identity and Branding Design, Book Design.</i>

BRATISLAV PANTELIC (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design / History</i>
Phone	<i>90 (216) 483 9262</i>
E-Mail	<i>pantelic@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~pantelic/</i>
Research Area Keywords	<i>Late Classical and Byzantine Art and Architecture; 19th-Century Art and Architecture of Southeastern Europe; Archaeological Methodology; Art History; Art Theory.</i>
Current Research Activities	<i>Bratislav Pantelic is an art historian who specializes in the art and architecture of Southeastern Europe. He has published on late classical, Byzantine and medieval art and architecture. In his most recent works, he has ventured into the modern age to concentrate on issues relating to the visual arts, nationalism and identity. His focus is on the past -- how the past has been perceived and in particular how perceptions of the past and notions of heritage and cultural belonging are used in identity construction and eventually to influence political action.</i>

ONUR YAZICIGİL (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9334</i>
E-Mail	<i>oyazicigil@sabanciuniv.edu</i>
Web	<i>http://onuryazicigil.com/</i>
Research Area Keywords	<i>Typography, Type Design, Information Design, Mixed Media Illustration, Graphic Design.</i>
Current Research Activities	<i>Currently working on a contemporary sanserif type design which supports central and eastern European languages for continuous typesetting. The type is accompanied by a series of alternative forms, which boosts readability in Turkish typesetting as well as other diacritic marks found in other Latin alphabets. The type takes its historical reference from the humanist forms of the Renaissance period and synchronizes them with the contemporary digital screen technology for optimum legibility.</i>

YOONG WAH ALEX WONG (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9276</i>
E-Mail	<i>alexw@sabanciuniv.edu</i>
Web	<i>http://www.aw-alexwong.com/ http://myweb.sabanciuniv.edu/alexw/</i>
Research Area Keywords	<i>Photography and Video: Borderland, Climate Change, Human And Nature Interrelationship; 3D Animation, Motion Graphics, Digital Art And Design: Fictional, Conceptual Narratives and Storytelling.</i>
Current Research Activities	<i>Dr. Wong's research theme centers on photography and video in theoretical and artistic investigation in the scope of borderland and community identity from Western China to the Himalayan Region. Concurrently he is researching and working on the topic of climate change, extreme weather condition and locations (from -20 °C to -40 °C) to articulate his artistic works. On the other hand, his 3D animation, motion graphics, digital art and design research involve the creative process of content and context formation for animated narratives and storytelling.</i>

WIESLAW ZAREMBA (FACULTY MEMBER)

Area	<i>Visual Arts and Visual Communication Design</i>
Phone	<i>90 (216) 483 9266</i>
E-Mail	<i>zaremba@sabanciuniv.edu</i>
Web	<i>http://wieslawzaremba.com/</i>
Research Area Keywords	<i>Teaching of the Arts; Drawing; Painting; Mechanical Media; Lithography.</i>
Current Research Activities	<i>My research activities are currently focused on a few different fields thanks to the international teaching experience I had at Gdansk State Academy of Fine Arts in Poland, Bilkent University and for the last 10 years at Sabanci University, Turkey. Since 2003, I have been cooperating with some American, Italian, Malaysian and Singapore universities and visiting these countries to take part in international group exhibitions as well as workshops and conferences. Having developed a multidisciplinary approach and methods in the teaching of arts, I am currently continuing my research from visual arts & visual arts design to stage performing arts and psychology and have been excavating new things and following the updated information in these fields. As a 'learning' instructor, I have also been focusing on other fields of our Visual Arts and Visual Communication Dept. at SU and improving my skills in design and photography over last 10 years. I have been investigating the use of photography cameras and other technical equipment for last 4 years and have been doing my own research. Photography is always an aspect of my artistic and teaching activities and I also design all my and students' exhibitions posters through the use of computer design and photoshop programs. I also give my students photography tasks and encourage them to combine photography and video together with their painting and drawings. I provide my students with a theater atmosphere including lighting and posing models in the studio and organize a series of lectures given my Ms. Meral Çulha, psychology advisor at SU, regarding 'face expressions' every year while I teach them how to draw portraits.</i>





FENS

FACULTY OF ENGINEERING AND NATURAL
SCIENCES

SELİM BALCIŞOY (VICE DEAN, FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9569</i>
E-Mail	<i>balcisoy@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/balcisoy</i>
Research Area Keywords	<i>Computer Graphics, Virtual Reality, Augmented Reality, Data Visualization, Visual Analytics and Cultural Heritage.</i>
Current Research Activities	<i>Dr. Balcisoy is a Director of Behavioral Analytics & Visualization Lab, co-founded by Sabanci University and MIT Media Lab Human Dynamics Group in 2015. The Lab conducts research on Big Data Analytics and Data Visualization using large data sets and is supported by Akbank, Aksigorta, Sigorta Bilgi ve Gözetim Merkezi, and SAS.</i>

GÜLŞEN DEMİRÖZ (INSTRUCTOR)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9559</i>
E-Mail	<i>gulsend@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulsend/</i>
Research Area Keywords	<i>Software Engineering, Software Testing, Software Quality, Machine Learning.</i>
Current Research Activities	<i>Software Cost Modeling/Estimation, Combinatorial Interaction Testing, Covering Arrays, Search-based Software Engineering, Highly Configurable Software Systems.</i>

ESRA ERDEM (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9574</i>
E-Mail	<i>esraerdem@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~esraerdem/</i>
Research Area Keywords	<i>Artificial Intelligence, Knowledge Representation and Reasoning, Cognitive Robotics.</i>
Current Research Activities	<i>Our group focuses on research in the areas of artificial intelligence, knowledge representation and reasoning, and cognitive robotics along two lines: (1) on the mathematical foundations and (2) on their applications (e.g., biomedical informatics, computational biology, semantic WEB, multi-agent path planning, service robotics, cognitive factories, rehabilitation robotics).</i>

KEMAL İNAN (EMERITUS PROFESSOR)

Area	<i>Computer Science and Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9518</i>
E-Mail	<i>inan@sabanciuniv.edu</i>
Web	<i>http://www.sabanciuniv.edu/</i>
Research Area Keywords	<i>Technological Unemployment, Automation.</i>
Current Research Activities	<i>Social Consequences of Automation Technologies.</i>

KAMER KAYA (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9566</i>
E-Mail	<i>kaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/kaya</i>
Research Area Keywords	<i>High-Performance Computing, Parallel Algorithms, Cryptography.</i>
Current Research Activities	<i>Dr. Kaya is working on high-performance computing, GPU programming, and developing parallel algorithms for sparse and irregular data on various architectures including clusters, multicore CPUs, and accelerators. He is also working on Cryptography and Blockchain.</i>

MEHMET KESKİNÖZ (FACULTY MEMBER)

Area	<i>Computer Science and Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9539</i>
E-Mail	<i>keskinoz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/keskinoz/</i>
Research Area Keywords	<i>Data Analytics, Data Storage, Data Communications, Information Coding, Statistical Signal Processing, Multimedia and Biometric Security, Information Hiding, Information and Data Fusion.</i>
Current Research Activities	<i>One of Dr. Keskinöz's research interests is to design algorithms and code for robust wired and wireless digital communications systems (such as DSL, 5G, 6G, etc.) as well as ultra-high capacity data storage systems such as blu-ray and hard-disk. His interests also include data analytics and statistical data processing (e.g., information and data fusion, time series analysis, biometric fusion), error control coding (such as turbo, LDPC and polar codes) for information systems, communication systems, and multimedia systems and biometric security systems.</i>

ALBERT LEVİ (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9563</i>
E-Mail	<i>levi@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/levi/</i>
Research Area Keywords	<i>Information and Network Security, Wireless System Security, Certificate Systems and Public Key Infrastructures, Security and Privacy in IoT and Cloud Computing, Application Layer Security Protocols, Data Privacy.</i>
Current Research Activities	<i>Dr. Levi's recent research focus mainly on development of efficient, secure, and privacy-preserving communication frameworks for RFID systems, IoT, Cloud, MANETs and sensor networks; design and analysis of email security protocols; security analysis of various existing secure systems; and development of secure e-commerce and e-payment schemes. Dr. Levi's research is funded by TÜBİTAK, Türk Telekom and Ministry of Science, Industry and Technology.</i>

ERDİNÇ ÖZTÜRK (FACULTY MEMBER)

Area	<i>Computer Science and Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9514</i>
E-Mail	<i>erdinco@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Cryptography and Security, Computer Architecture, High-Performance Cryptography (Hardware and Software Applications)</i>
Current Research Activities	<i>High-Performance Cryptography (Hardware and Software Applications), Cloud Security, Post-Quantum Cryptography, FPGA Design, and Computer Architecture.</i>

ERKAY SAVAŞ (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9606</i>
E-Mail	<i>erkays@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~erkays/</i>
Research Area Keywords	<i>Cryptography and Security, Computer Arithmetic, High-Performance Computing, Distributed Computing.</i>
Current Research Activities	<i>Security and Privacy in Embedded Systems, Privacy-Aware Security Systems, Private Information Retrieval, Privacy-Preserving Data Mining, and Trusted Computing.</i>

YÜCEL SAYGIN (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9576</i>
E-Mail	<i>ysaygin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/ysaygin/</i>
Research Area Keywords	<i>Data Mining, Spatio-Temporal Data Management, Privacy-Preserving Data Mining, Privacy-Preserving Data Publishing.</i>
Current Research Activities	<i>Data mining and privacy aspects of data mining, ubiquitous knowledge discovery and spatio-temporal data mining, privacy-preserving distributed mining of spatio-temporal data, and anonymization of moving object trajectories.</i>

ÖZNR TAŞTAN (FACULTY MEMBER)

Area	<i>Computer Science and Engineering / Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9883</i>
E-Mail	<i>otastan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Machine Learning, Computational Biology, Bioinformatics, Complex Diseases, Genomic Data Privacy.</i>
Current Research Activities	<i>Significant progress has been made in the ability to characterize DNA, RNA, and protein sequences, and measure expression quantities. Towards fully realizing the scientific and clinical potential of this large scale data, our main research objective is to develop biologically-motivated, statistically-grounded, and computationally-efficient tools that provide insights for diseases and cellular mechanisms. Our lab develop and apply machine-learning techniques that utilize this large and heterogeneous biological data toward addressing a diverse range of problems. Additionally in our recent work, we focus on genomic data privacy.</i>

BERRİN YANIKOĞLU (DIRECTOR FOR SABANCI UNIVERSITY CENTER OF EXCELLENCE IN DATA ANALYTICS, FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9528</i>
E-Mail	<i>berrin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/berrin/</i>
Research Area Keywords	<i>Biometrics, Document Recognition, Image Understanding, Machine Learning.</i>
Current Research Activities	<i>Machine learning applications in computer vision and natural language understanding, including attribute-based classifiers for face and plants, plant and plant disease identification from photographs, handwriting recognition, signature and fingerprint verification, and text understanding and summarization.</i>

HÜSNÜ YENİGÜN (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9544</i>
E-Mail	<i>yenigun@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yenigun/</i>
Research Area Keywords	<i>Formal Methods, Hardware/Software Verification, Model-Checking, Finite State Machine-Based Testing.</i>
Current Research Activities	<i>Dr. Yenigün has been working on formal aspects of software testing and especially on finite state machine-based testing. Typically, the work in this field is of a theoretical nature and based on some computationally-expensive graph theoretical problems. Therefore, the development of heuristic algorithms to solve these problems and investigating interesting special cases where polynomial time algorithms can suffice are within the research scope of Dr. Yenigün's group.</i>

REYYAN YENİTERZİ (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 568 7041</i>
E-Mail	<i>reyyan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/reyyan</i>
Research Area Keywords	<i>Natural Language Processing, Information Retrieval and Search Engines, Text Mining, Machine Learning.</i>
Current Research Activities	<i>Dr. Yeniterzi is working on Natural Language Processing (NLP) and applications of Deep Learning and NLP on healthcare, legal and e-commerce domains. Dr. Yeniterzi's group is also working on developing domain specific search engines, stance detection tools for social media, question answering systems, call center automation tools and Turkish language processing tools.</i>

CEMAL YILMAZ (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9532</i>
E-Mail	<i>cyilmaz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/cyilmaz</i>
Research Area Keywords	<i>Software Engineering, Software Quality Assurance, Software Testing, Software Security, Program Analysis.</i>
Current Research Activities	<i>Dr. Yılmaz' primary research area is software engineering. His broad research interest is on programmer productivity. Dr. Yılmaz' research lab, SUSOFT, develops practical techniques and tools to help programmers create cheaper, faster, and more reliable software systems with a particular focus on combinatorial interaction-testing, AI-based software quality assurance, highly-configurable software systems, online approaches for detecting side channel attacks, online failure prediction, dynamic program analysis, and data-driven program analysis.</i>

OZAN BİÇEN (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 568 70 49</i>
E-Mail	<i>ozan.bicen@sabanciuniv.edu</i>
Web	<i>http://www.aobicen.com</i>
Research Area Keywords	<i>Signal Processing, Computational Physiology, Wearables, Lab-on-a-chip, Machine Learning, Communications.</i>
Current Research Activities	<i>Computational biomarkers and prototypes for wearable physiological sensing, biocomputation, brain-inspired machine learning.</i>

AYHAN BOZKURT (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9537</i>
E-Mail	<i>abozkurt@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/abozkurt/</i>
Research Area Keywords	<i>VLSI Design for Analog/Digital Sensor Interfaces, Microelectromechanical System (MEMS) Modeling and Design, Medical Instrumentation (Sensor and Sensor Interface Design), Acoustic Microscopy (Material Characterization, Lens Design)</i>
Current Research Activities	<i>Front-end electronics design for ultrasonic imaging and therapeutics; micromachined ultrasonic transducer design for intravascular ultrasound (IVUS) and high-intensity focused ultrasound (HIFU) applications; and transducer modeling.</i>

ÖMER CEYLAN (RESEARCHER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 568 7033</i>
E-Mail	<i>ceylanomer@sabanciuniv.edu</i>
Web	<i>http://www.omerceylan.com</i>
Research Area Keywords	<i>Analog / Mixed Mode Integrated Circuits, Sensor Interface Circuit Design, Analog-to-Digital Converters, Analog / Digital Readout Integrated Circuits.</i>
Current Research Activities	<i>High-speed ADC design for 5G applications, readout-integrated circuit design for microbolometer imaging applications, development of handheld devices for detection of cancer and cardiovascular disease markers, and integrated circuits for neuromorphic computing.</i>

MÜJDAT ÇETİN (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9594</i>
E-Mail	<i>mcetin@sabanciuniv.edu</i>
Web	<i>http://spis.sabanciuniv.edu</i>
Research Area Keywords	<i>Statistical Signal and Image Processing, Computational Imaging, Radar Imaging, Biomedical Information Processing, Brain-Computer Interfaces, Neural Signal Processing, Microscopic Image Analysis.</i>
Current Research Activities	<i>Dr. Çetin's current research activities are focused around the following themes: (1) Sparse signal representation and compressed sensing with application to computational imaging problems in radar and biomedical imaging; (2) Signal processing and machine learning for electroencephalography (EEG) based brain-computer interfaces with application to restoration of communication of locked-in patients, neurofeedback for motor learning, and rehabilitation of stroke; (3) Automated analysis of microscopic images of neurons; and (4) Computer vision methods for fine-grained product recognition.</i>

ÖZGÜR ERÇETİN (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9608</i>
E-Mail	<i>oercetin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/oercetin</i>
Research Area Keywords	<i>5G Networks, Internet of Things, Energy-Efficient Communications, Information Theory, Stochastic Optimization.</i>
Current Research Activities	<i>Prof. Erçetin's research interests are understanding the interplay between different layers of communication networks for improving future information and communication technologies. He is currently investigating (1) Energy Harvesting Communications, (2) Wireless Multimedia Systems, (3) Information-centric Networking, and (4) Sensor Networks and Fusion.</i>

AYTÜL ERÇİL (NETWORK FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9543</i>
E-Mail	<i>aytulercil@sabanciuniv.edu</i>
Web	<i>http://vpa.sabanciuniv.edu/people/aytulercil</i>
Research Area Keywords	<i>Invariant Object Recognition, Implicit Polynomial Models, Texture Analysis, Statistical Pattern Recognition, Use of Machine Vision in Manufacturing Automation, Biometrics, Facial Expression Analysis.</i>
Current Research Activities	<i>Current research activities include developing techniques for automated visual monitoring of patients and elderly people (especially those with Alzheimers disease) living in nursing homes or in (assisted) home environments. Another current research activity involves 3D-scanning of specular surface using thermal imaging.</i>

ÖZGÜR GÜRBÜZ (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9609</i>
E-Mail	<i>ogurbuz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~ogurbuz/</i>
Research Area Keywords	<i>Wireless Networks, Medium Access Control, Resource Allocation, Scheduling, Cross Layer Design, 5G Networks, Full Duplex.</i>
Current Research Activities	<i>Dr. Gürbüz's research interests are in the field of wireless communications and networks, particularly medium-access control, radio resource management, cross layer design for wireless networks, and evolving air interface technologies (such as full duplex, cooperative diversity, MIMO, and applications such as wireless mesh networks, sensor networks, etc.).</i>

YAŞAR GÜRBÜZ (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9533</i>
E-Mail	<i>yasar@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yasar/</i>
Research Area Keywords	<i>RF, Microwave & Millimeter-wave Integrated Devices, Circuits and Systems, Analog and Mixed-Signal Integrated Circuits and Systems, Sensors and Actuators, Micro-Electro-Mechanical Systems (MEMS)</i>
Current Research Activities	<i>RF / Microwave / Millimeter-wave Integrated Devices, Circuits and Systems: Design and Fabrication X-band (8-12 GHz) phased-array transceiver module for RADAR applications : SiGe BiCMOS process technology is being implemented to realize X-band Transmitter/Receiver (T/R) front-end for Phased Array, RADAR Applications. T/R module consists of Phase Shifter, T/R Switches, LNA and PA sub-blocks and involves RF Integrated System / Circuit / Device Design, Fabrication, Test / Measurement competence. F Band (94 – 140 GHz) Passive RADAR for THz Imaging Applications: SiGe BiCMOS process technology is being implemented to realize 94-140 GHz Receiver front-end for Passive Imaging RADAR Applications.</i>

Current Research
Activities

Receive module consists of LNA, RF MEMS Switch, Detector and Baseband Circuitry and involves Millimeter-wave, Microwave and RF Integrated Devices, Circuits and Systems Design, Fabrication, Test / Measurement competence.

Analog and Mixed-Signal Integrated Circuits and Systems Large-Array Sensor Readout Circuitry: Signal readout, control and conditioning circuits for large-array sensor/detector systems, such as 1024x1024, 640x480 IR Imaging Systems, etc., being developed using CMOS technology and analog / digital (mixed-signal) integrated circuits / system design and implementation competence.

Biological and Chemical Sensors, Actuators and MEMS Development of a Biosensor Platform (Lab-on-Chip): An electronic Lab-on-Chip, biosensing platform is being developed. The biosensors composed of capacitive transducers and amperometric electrodes, electronic readout circuitries, and/or on-chip transmitter, and a signal processing and conditioning circuitry. The platform is aimed at applications of the early monitoring and diagnosis of life threatening diseases such as cancer and cardiovascular diseases. The platform is also applicable for the detection / quantification of Biological and Chemical Warfare Agents.

MEMS research activities involves development of integrated circuit compatible RF MEM Devices: Switch, voltage controlled capacitor, etc. A succesfull implementation of this research have led to a RF MEMS switch offered in a standard SiGe BiCMOS process. Application of this siwtch for different frequency range is our current / active AREA of research, involving design, fabrication and testing aspects.

İLKER HAMZAOĞLU (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9577</i>
E-Mail	<i>hamzaoglu@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/hamzaoglu</i>
Research Area Keywords	<i>Low Power Digital Hardware Design for Video Processing and Compression, System-on-Chip (SoC) ASIC and FPGA Design, Embedded System Design, Computer-aided Design, and Test for Digital VLSI Circuits.</i>
Current Research Activities	<i>Approximate Computing-based Video Compression Hardware Design, Low Power HEVC and VVC Video Compression Hardware Design, FPGA Implementation of Video Compression Algorithms Using HLS.</i>

KEMAL İNAN (EMERITUS PROFESSOR)

Area	<i>Electronics Engineering / Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9518</i>
E-Mail	<i>inan@sabanciuniv.edu</i>
Web	<i>http://www.sabanciuniv.edu/</i>
Research Area Keywords	<i>Technological Unemployment, Automation.</i>
Current Research Activities	<i>Social Consequences of Automation Technologies.</i>

MEHMET KAYNAK (NETWORK FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>+49 335 5625 707</i>
E-Mail	<i>mykaynak@sabanciuniv.edu kaynak@ihp-microelectronics.com</i>
Web	<i>http://fens.sabanciuniv.edu/tr/people/faculty/detail/00Bo8675 http://www.ihp-microelectronics.com/en/departments/technology/overview.html</i>
Research Area Keywords	<i>High Frequency Electronics, BiCMOS Semiconductor Fabrication, MEMS, Heterogeneous Integration, SiP.</i>
Current Research Activities	<i>Development and fabrication of mm-wave and THz circuits and sensors, heterogeneous integration for system-in-package solutions, high speed SiGe based BiCMOS technologies.</i>

MEHMET KESKİNÖZ (FACULTY MEMBER)

Area	<i>Electronics Engineering / Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9539</i>
E-Mail	<i>keskinoz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/keskinoz/</i>
Research Area Keywords	<i>Data Analytics, Data Storage, Data Communications, Information Coding, Statistical Signal Processing, Multimedia and Biometric Security, Information Hiding, Information and Data Fusion.</i>
Current Research Activities	<i>One of Dr. Keskinöz's research interests is to design algorithms and code for robust wired and wireless digital communications systems (such as DSL, 5G, 6G, etc.) as well as ultra-high capacity data storage systems such as blu-ray and hard-disk. His interests also include data analytics and statistical data processing (e.g., information and data fusion, time series analysis, biometric fusion), error control coding (such as turbo, LDPC and polar codes) for information systems, communication systems, and multimedia systems and biometric security systems.</i>

GÜLLÜ KIZILTAŞ ŞENDUR (FACULTY MEMBER)

Area	<i>Electronics Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9584</i>
E-Mail	<i>gkiziltas@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~gkiziltas/</i>
Research Area Keywords	<i>Topology Optimization, Multi-Disciplinary Optimization (MDO), Metamaterials, Computational Electromagnetics, Antenna Design, Finite Element Analysis, Design of Coupled Systems, Tissue Engineering, Micro-CT, Multi-Material Ceramic-Polymer Fabrication, Solid Free Form Fabrication.</i>
Current Research Activities	<i>Dr. Kiziltas Sendur's research theme centers on the design and fabrication of complex materials-based engineering systems for mechatronic, electromagnetic, and biomedical applications. Her research efforts focus on: 1) Topology optimization design methods for electromagnetic applications (in particular antennas and filters), and the design and fabrication of artificially engineered electromagnetic materials/metamaterials; 2) Development of multi-disciplinary optimization (MDO) methods for mechatronic systems in particular robotic systems; 3) Topology optimization and fabrication of bone scaffolds and micro-CT characterization for tissue engineering; 4) Finite element analysis-based optimal design of coupled engineering systems (in particular solid-fluid-electromagnetically coupled systems); and 5) Advanced fabrication of functionally graded ceramic-polymer composite materials in particular using extrusion, tape and freeze casting and 3D printing systems.</i>

YUSUF LEBLEBİCİ (PRESIDENT)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 90 11</i>
E-Mail	<i>yusuf.leblebici@sabanciuniv.edu</i>
Web	<i>https://www.sabanciuniv.edu/en/president</i>
Research Area Keywords	<i>High Speed CMOS Integrated Circuits, Mixed-Signal IC Design, Sensor Interfacer, Neuromorphic Circuits and Systems, Novel Device Technologies for Nonvolatile Data Storage.</i>
Current Research Activities	<p><i>High Performance Integrated Circuits</i></p> <p><i>Aimed at creating the fundamental building blocks of high-complexity, high-performance systems, this research direction explores new circuit architectures that inherently combine advantages of high speed, low power dissipation, predictable interconnect delays and robustness. Key elements of this research also include the definition of a clear link to high-level design methodologies, physical design automation (floorplanning, placement & routing) techniques, simplification of timing verification, and exploration of dynamically reconfigurable system architectures.</i></p> <p><i>One of the fundamental bottlenecks in high-performance system design is the rather limited data transmission speed between various, usually fast, components of a complex system, and with the outside world in general. This research direction explores the design of versatile, fully integrated data link components, and very high-speed data transmission methodologies over electrical and optical channels. Near term objectives of this research effort include dramatically increasing the bandwidth for short-distance data communication, at least by one order of magnitude, so that the system-level data transmission speeds can keep up with rapidly increasing processor speeds.</i></p> <p><i>Non-Volatile Memory and Crossbars</i></p> <p><i>This research activity explores the fabrication and CMOS co-integration of transition metal oxide resistive RAM (ReRAM) devices such as TiO₂, TaO_x and HfO_x based memristive elements. In addition to the significant promise of very high density nonvolatile storage capabilities in the form of 1T1R and 1S1R configurations, these novel devices and crossbar</i></p>

Current Research Activities	<i>arrays have the proven capability of high density analog weight storage for neuromorphic circuit implementations. Such crossbar applications are eventually expected to open up the possibilities for very dense and low power neuromorphic functions to be integrated with conventional CMOS.</i>
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VOLKAN ÖZGÜZ (RECTOR CONSULTANT, FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9834</i>
E-Mail	<i>vozguz@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/</i>
Research Area Keywords	<i>Microelectronics and Nanotechnologies, 3D-Integration and Packaging, Microsystems and Nanosystems, Integration of Heterogeneous Systems.</i>
Current Research Activities	<i>Integration of 3D technologies and nanotechnologies, low power system implementation using 3D-integration and nanoelectronics, nano to micro and macro interfaces and Nano-Packaging, miniaturization for wearable implantable biomedical systems; cognitive systems using neuromorphic approaches; and memory-augmented processing for high productivity computing and communication.</i>

HÜSEYİN ÖZKAN (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9594</i>
E-Mail	<i>hozkan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hozkan</i>
Research Area Keywords	<i>Signal Processing, Machine Learning, Computer Vision, and Computational Neuroscience.</i>
Current Research Activities	<i>Anomaly Detection, Multi-Armed Bandit Problems, Online Classification/Clustering, Visual Tracking, Vision-based Large Area Surveillance, Attention Modeling for BCI Applications, P300 based BCI Speller, Neural Corralates of Naturalistic Face Perception.</i>

ERDİNÇ ÖZTÜRK (FACULTY MEMBER)

Area	<i>Electronics Engineering / Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9514</i>
E-Mail	<i>erdinco@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Cryptography and Security, Computer Architecture, High-Performance Cryptography (Hardware and Software Applications).</i>
Current Research Activities	<i>High-Performance Cryptography (Hardware and Software Applications), Cloud Security, Post-Quantum Cryptography, FPGA Design, and Computer Architecture.</i>

YUNUS SARIKAYA (VISITING INSTRUCTOR)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9515</i>
E-Mail	<i>ysarikaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ysarikaya</i>
Research Area Keywords	<i>Stochastic Network Optimization, Information Theoretical Security, Future Network Design, and Predictive Mechanism Design.</i>
Current Research Activities	<i>His current research activities are mainly focused on the design and realization of future wireless networks (5G and beyond) including autonomous smart networks. He is currently working on design and optimization of intermittent communication and computing in a fog network, and optimization of autonomous smart network by combining game theoretical methods and machine learning.</i>

İBRAHİM TEKİN (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9534</i>
E-Mail	<i>tekin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/tekin/</i>
Research Area Keywords	<i>Microwave and Millimeter Wave Active/Passive Circuit and Antenna Design, Millimeter Wave Systems, Full Duplex/MIMO Radio and Antennas, Antenna Design, RF Circuit Design, GPS-based Positioning.</i>
Current Research Activities	<i>Millimeter wave antennas and LNA, phase shifters – 75-110 GHz Millimeter wave arrays and beam steering for 5G 77 GHz automotive radar receiver front-ends RFIC on-chip antenna implementation/simulation and measurements Wide band antennas for 5G full-duplex communications Millimeter wave active and MEMS based phase shifters Multiport antennas Indoor GPS-positioning.</i>

ŞİRİN TEKİNAY (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 568 7032</i>
E-Mail	<i>sirintekinay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Complex Systems, Wireless Mobile Networks, 5G, 6G, Internet of Things, Sensor Networks, Location, Navigation .</i>
Current Research Activities	<i>Engineering education, globalization, sustainability, mobility, and open science.</i>

MURAT KAYA YAPICI (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9553</i>
E-Mail	<i>mkyapici@sabanciuniv.edu</i>
Web	<i>http://mems.sabanciuniv.edu/</i>
Research Area Keywords	<i>Microelectromechanical System (MEMS), Micromachining and Micro/Nanofabrication Technologies, Micro Sensors and Actuators, Semiconductor Process Technologies, Scanning Probe-based Nanotechnology and Nanomanufacturing, Biomedical Microsystems and Devices, Microfluidic Systems, MEMS-CMOS, and Nanomaterial Integration.</i>
Current Research Activities	<i>At Sabanci University Micro/Nano Systems & Devices Lab (SU-MEMS), we employ our broad expertise in micro/nanofabrication technologies and develop miniaturized devices, sensors & actuators in an effort to solve interdisciplinary problems in biomedical sciences, electronics, and nanotechnology. We have four research AREAs: Micro/Nano Electro Mechanical Systems (M/NEMS), Micro Sensors and Actuators Novel Micro/Nanofabrication Techniques, Scanning Probe-based Nanotechnology Biosensors, Biomedical Microsystems, Devices, and Microfluidic Systems Electronic Devices, CMOS-MEMS Nanomaterial (e.g. graphene) Integration.</i>

MELİK YAZICI (POSTDOCTORAL RESEARCHER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9958</i>
E-Mail	<i>melikyazici@sabanciuniv.edu</i>
Web	<i>http://sumer.sabanciuniv.edu/about-MYazici.html</i>
Research Area Keywords	<i>Analog and Mixed Signal Integrated Circuits, Infrared Systems, Readout Circuits, SWIR, Measurement Techniques and Systems.</i>
Current Research Activities	<i>My current research is focused on 5G front-end IC systems, hig- frequency measurement systems, and integrated readout circuits.</i>

ALİ RANA ATILGAN (FACULTY MEMBER)

Area	<i>Industrial Engineering / Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9525</i>
E-Mail	<i>atilgan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/atilgan/</i>
Research Area Keywords	<i>Biological Physics and Systems Science.</i>
Current Research Activities	<i>We identify interactions in biological and social systems and trace their communication pathways on different time and length scales. We parse out the relationships between local motifs and global patterns in complex networks. These activities find technological applications in devising molecular machines and system identification tools.</i>

AHMET BARIŞ BALCIOĞLU (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9965</i>
E-Mail	<i>balcioglu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/balcioglu/</i>
Research Area Keywords	<i>Stochastic Models, Analysis of Queueing Systems, Production/Inventory Systems, Call Centers, Simulation.</i>
Current Research Activities	<i>I work on delay systems where customer/demand arrival processes can be partially-controlled by the system management. One area concerns customer contact centers for which I develop approximations to capture the steady-state system measures. An extension to this problem arises when the call center provides a callback option to those who are unwilling to wait online. Another domain I work at is the analysis of production inventory systems where demand is controlled via dynamic pricing and dynamic lead time quotation. When the congestion level on shop floor increases or the inventory level drops, via increasing the price of a commodity or announcing longer lead times, the management can lower the demand rate. With these models, I try to envision when it is more important to implement such policies.</i>

ERHAN BUDAK (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9519</i>
E-Mail	<i>ebudak@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~ebudak/</i>
Research Area Keywords	<i>Manufacturing Engineering, Machining Processes and Machine Tools, Machine Dynamics.</i>
Current Research Activities	<i>Modeling of machining processes, stability of multi-tasking and parallel machining, high-performance abrasive machining processes, machining of high temperature aerospace alloys, optimal design of machine tool structures, thermal modeling of cutting processes, and optimal design of special milling tools.</i>

KEREM BÜLBÜL (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9589</i>
E-Mail	<i>bulbul@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/bulbul/</i>
Research Area Keywords	<i>Modeling and Analysis of Scheduling Systems with a Recent Emphasis on Stochastic Aspects, Mathematical Programming and Computational Optimization with an Emphasis on Novel Methodological and Practical Aspects of Decomposition Methods, Modeling and Optimization for Cloud Computing, Optimization Problems at the Interface of Predictive and Prescriptive Analytics.</i>
Current Research Activities	<i>Currently, my research is evolving in two primary areas. First, I am studying machine scheduling problems through mathematical programming techniques, with a focus that is shifting towards modeling risk under uncertainty. Second, I continue to work on both novel methodological and practical aspects of decomposition methods in mathematical programming and computational optimization. Recently, I have also taken a keen interest in modeling and optimization of problems that arise in a cloud-computing environment.</i>

BÜLENT ÇATAY (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9531</i>
E-Mail	<i>catay@sabanciuniv.edu</i>
Web	<i>http://fens.sabanciuniv.edu/en/people/faculty/detail/292</i>
Research Area Keywords	<i>Production Planning, Transportation and Logistics Systems, Sustainable Transport Planning, Vehicle Routing, Electromobility, Applied Optimization, Metaheuristic Approaches to Large-Scale Problems.</i>
Current Research Activities	<i>Decision problems related to transportation and logistics systems with a special emphasis on sustainable transport planning, the utilization of electric vehicles in logistics operations, battery performance analysis, and energy-efficient transportation as well as applied optimization and heuristic methods to solve large-scale combinatorial optimization problems.</i>

ERALP DEMİR (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 300 1354</i>
E-Mail	<i>eralpd@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Composite Mechanics, Crystal Plasticity Finite Elements, Mechanical Size Effects, Residual Stress Measurements from Lattice Strains.</i>
Current Research Activities	<i>Modeling of Composites Mechanics for Curvilinear Fiber Placement Method Finite Element Modeling of Crystal Plasticity Physically-Based Models for Single Crystal Plasticity Modeling of Anisotropy and Texture Evolution during Metal Forming Processes.</i>

UMUT EKMEKÇİ (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9597</i>
E-Mail	<i>umutekmekci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/umutekmekci</i>
Research Area Keywords	<i>Design and Implementation of Innovation Systems, University-Industry Collaborations, Collective Creativity and Innovation Communities, Innovation Management in Energy Sector.</i>
Current Research Activities	<i>Designing Components of Corporate Innovation Systems.</i>

HANS FRENK (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9520</i>
E-Mail	<i>frenk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Stochastic Processes and Statistics, Convex Analysis, Dynamic Programming and Optimization, Applications of Mathematical Tools of Operations Research to Applied Problems (Inventory Control, Maintenance, Revenue Management, Health Care).</i>
Current Research Activities	<i>Stochastic Control Problems, Airline Revenue Management, Inventory Control, Maintenance, Poisson Point Processes, and Levy Processes.</i>

EZGİ KARABULUT TÜRKSEVEN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 7048</i>
E-Mail	<i>ezgi.turkseven@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Integer Programming, Distributed Optimization, Online Optimization, Computational Optimization, Bilevel Optimization.</i>
Current Research Activities	<i>My current research is on solving multiplayer optimization problems. Due to this multiplayer nature of the problem, the players have access to limited data. Furthermore, the optimization problem is in an online setting, meaning it is repeated for multiple iterations with constantly changing data. One branch of the research focuses on learning the distribution of the unknown data stream throughout the iterations, while the other branch is on designing efficient algorithms to solve the optimization problems.</i>

MURAT KAYA (VICE DEAN FOR EDUCATION, FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9622</i>
E-Mail	<i>mkaya@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/mkaya/</i>
Research Area Keywords	<i>Supply Chain Management, Decision Analysis, Behavioral Operations Management, Energy and Electricity Supply Chains.</i>
Current Research Activities	<i>Dr. Kaya's research is concerned with strategic decision analysis in supply chains. In addition to building analytical models of decision making, he also studies the related behavioral issues through experiments with human decision makers. Having worked with traditional supply chains (including apparel, FMCG, and pharma), Dr. Kaya's recent interest is directed towards electricity/energy supply chains. In particular, he is developing models for electricity load and price forecasting, and for studying the competitive behavior of generation companies. Dr. Kaya is also involved in integrated energy systems modeling.</i>

KEMAL KILIÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9596</i>
E-Mail	<i>kkilic@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/kkilic/</i>
Research Area Keywords	<i>Data Mining, Decision Support Systems, Heuristic Search and Optimization Techniques, Innovation Management, Health Informatics.</i>
Current Research Activities	<i>Dr. Kilic currently works on Digital Transformation with a particular focus in application of data science techniques as part of the decision-making process in operations. He also works on maturity assessment of SMEs and developing strategies/road maps for their digitalization journey.</i>

ESRA KOCA (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9593</i>
E-Mail	<i>ekoca@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Mathematical Programming, Conic Optimization, Dynamic Programming, Production Planning and Logistics.</i>
Current Research Activities	<i>Multistage Stochastic Lot Sizing Problem with Nervousness Considerations; Green Lot Sizing Problems.</i>

BURAK KOCUK (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 568 7039</i>
E-Mail	<i>burakkocuk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/burakkocuk</i>
Research Area Keywords	<i>Mathematical Programming, Mixed-Integer Nonlinear Programming, Conic Programming, Applications in Engineering Optimization.</i>
Current Research Activities	<i>Dr. Kocuk's current research mainly focuses on the global optimization of mixed-integer nonlinear programming problems. He uses (mixed-integer) conic programming techniques as the basis to develop solution methods for challenging engineering optimization problems. He has particular interest in the fields of power systems engineering (e.g. optimal power flow and transmission switching problems), financial engineering (e.g. portfolio optimization problem) and chemical engineering (e.g. pooling problem).</i>

BAHATTİN KOÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9557</i>
E-Mail	<i>bahattinkoc@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bahattinkoc/</i>
Research Area Keywords	<i>Computer-Aided Design and Manufacturing, Additive Manufacturing (3D Printing), Tissue/Organ Engineering, Nano/Micro-Scale Modeling and Manufacturing.</i>
Current Research Activities	<i>Dr. Koç's research interests include i) 3D bioprinting/biomanufacturing for tissue and organ engineering; ii) computational geometry and optimization for additive manufacturing process; iii) heterogenous, multi-functional object modeling and manufacturing; iv) nano-micro additive manufacturing of composite materials; v) process planning and development for hybrid additive-subtractive processes. Dr. Koç's research goal is to develop novel integrated computational design and manufacturing strategies and techniques for geometrically and functionally complex parts for various applications in areas like biomedical engineering, medicine, consumer products, aerospace and automotive engineering. .</i>

NİLAY NOYAN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9618</i>
E-Mail	<i>nnoyan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~nnoyan/</i>
Research Area Keywords	<i>Decision Making under Uncertainty, Stochastic Programming, Risk Modeling, Statistical Inference, Large-scale Optimization, Stochastic Optimization Applications.</i>
Current Research Activities	<i>Large-scale optimization, stochastic programming and risk modelling with a focus on developing stochastic optimization modeling approaches and solution methods that can be applied to a wide range of decision making problems. Dr. Noyan has been particularly interested in sustainable urban transportation, airline revenue management, and humanitarian logistics.</i>

A.GİZEM ÖZBAYGIN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 568 7040</i>
E-Mail	<i>ozbaygin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozbaygin</i>
Research Area Keywords	<i>Large-Scale Optimization Focused on Transportation and Logistics, Vehicle Routing and Scheduling, Last-Mile and Same-Day Delivery Planning, Algorithm Design.</i>
Current Research Activities	<i>My primary research interests are modeling and solving large-scale optimization problems with a focus on transportation and logistics, as well as innovative applications for vehicle routing and scheduling, last-mile delivery planning, ride-sharing, and green logistics. Inspired by the successful use of big data analytics in transportation and logistics industry within the past few years, I am also interested in the use of machine learning techniques in designing algorithms to efficiently solve dynamic and stochastic problems encountered in practice.</i>

SEMİH ONUR SEZER (FACULTY MEMBER)

Area	<i>Industrial Engineering / Mathematics</i>
Phone	<i>90 (216) 483 9586</i>
E-Mail	<i>sezer@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/sezer/</i>
Research Area Keywords	<i>Stochastic Processes, Martingales, Markov Processes, Lévy Processes, Random Measures, Optimal Stopping, Stochastic Optimal Control, Bayesian Sequential Analysis, Sequential Change Detection, Hypothesis Testing, Valuation and Hedging of Contingent Claims, Real Options, Revenue Management, Stochastic Inventory Control.</i>
Current Research Activities	<p><i>Dr. Sezer's current research includes applications of the stochastic optimal control theory in sequential analysis, production management, and financial engineering.</i></p> <p><i>In sequential analysis, there has been a developing interest in the literature on change detection and hypothesis testing problems due to their important applications in environment monitoring. Dr. Sezer is currently working on the extensions of these problems for continuous time-processes, his particular interest being the problems with Poisson and Wiener processes.</i></p> <p><i>Dr. Sezer's work in production management focuses on the inventory control problems. For the problems involving a single procurement decision, the earlier work in the literature generally brings static policies. As a contribution to and improvement of this earlier work, Dr. Sezer is currently working on dynamic policies that can be easily implemented in practice.</i></p> <p><i>Finally, Dr. Sezer's research in financial engineering is on dividend optimization problems for jump-diffusion processes which involve second order free boundary problems with integral operators and are known to be much more difficult than those with pure diffusion. Dr. Sezer is currently working on novel probabilistic techniques to solve these more difficult problems.</i></p>

GÜVENÇ ŞAHİN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9619</i>
E-Mail	<i>guvencs@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/guvencs</i>
Research Area Keywords	<i>Transportation and Distribution Planning, Scheduling and Sequencing, Network Design and Flow, Heuristic Algorithms, Linear Integer Programming.</i>
Current Research Activities	<i>Transportation Crew Planning, Line Planning in Urban Transportation, Operations in Electricity Markets, Vehicle Routing Problems, Airport Operations Planning, Reverse/Spare-Parts Logistics Network Design.</i>

LÜTFİ TANER TUNÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1305</i>
E-Mail	<i>ttunc@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ttunc/</i>
Research Area Keywords	<i>Robotic Manufacturing, Machine Tools, Machining Processes, CAD-CAM, 5-axis Milling.</i>
Current Research Activities	<i>Modelling and Simulation of Machining Processes & Systems/ Tool path generation and modification approaches for sculptured surface milling/Selection of Machining Strategies/ Tool path generation for automated fibre placement systems/Enhanced Accuracy for Robotic Milling/Modelling of 5-axis Abrasive Waterjet Cutting Processes.</i>

GÜNDÜZ AHMET ULUSOY (EMERITUS PROFESSOR)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9503</i>
E-Mail	<i>gunduz@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Project and Machine Scheduling, Innovation and Manufacturing Strategy Development; Evolutionary Algorithms.</i>
Current Research Activities	<i>Assessment of manufacturing firm competitiveness Scheduling of multi-objective resource constrained project Development of manufacturing strategy formulation template.</i>

TONGUÇ ÜNLÜYURT (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9504</i>
E-Mail	<i>tonguc@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/tonguc/</i>
Research Area Keywords	<i>Applications of Combinatorial Optimization.</i>
Current Research Activities	<i>We are working on various extensions of the sequential testing problem and minimum cost testing of general Series-Parallel Systems and Simple Series System with fixed costs, in particular. We are also interested in estimating the expected cost of a strategy for a monotone Boolean function. In addition, we are working on some applications regarding routing of home care service personnel.</i>

SİNAN YILDIRIM (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9583</i>
E-Mail	<i>sinanyildirim@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~sinanyildirim/</i>
Research Area Keywords	<i>Bayesian Statistics, Monte Carlo Simulation.</i>
Current Research Activities	<p><i>Technical report: On the Use of Penalty MCMC for Differential Privacy, on arxiv.</i></p> <p><i>Currently working in collaboration with Christophe Andrieu, University of Bristol and Arnaud Doucet, University of Oxford on two papers: "Scalable Monte Carlo inference for state-space models" and "On an alternative class of pseudo-marginal algorithms".</i></p> <p><i>Ertunç Erdil, Sinan Yıldırım, Tolga Tasdizen, Mujdat Çetin, "MCMC Shape Sampling for Image Segmentation with Nonparametric Shape Priors", Computer Vision and Pattern Recognition, CVPR 2016, Las Vegas.</i></p>

ERHAN BUDAK (FACULTY MEMBER)

Area	<i>Manufacturing Engineering / Industrial Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9519</i>
E-Mail	<i>ebudak@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~ebudak/</i>
Research Area Keywords	<i>Manufacturing Engineering, Machining Processes and Machine Tools, Machine Dynamics.</i>
Current Research Activities	<i>Modeling of machining processes, stability of multi-tasking and parallel machining, high performance abrasive machining processes, machining of high temperature aerospace alloys, optimal design of machine tool structures, thermal modeling of cutting processes, optimal design of special milling tools.</i>

ERALP DEMİR (FACULTY MEMBER)

Area	<i>Manufacturing Engineering / Industrial Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 300 1354</i>
E-Mail	<i>eralpd@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Composite Mechanics, Crystal Plasticity Finite Elements, Mechanical Size Effects, Residual Stress Measurements from Lattice Strains.</i>
Current Research Activities	<i>Modeling of Composites Mechanics for Curvilinear Fiber Placement Method Finite Element Modeling of Crystal Plasticity Physically-Based Models for Single Crystal Plasticity Modeling of Anisotropy and Texture Evolution during Metal Forming Processes.</i>

BAHATTİN KOÇ (FACULTY MEMBER)

Area	<i>Manufacturing Engineering/Industrial Engineering</i>
Phone	<i>90 (216) 483 9557</i>
E-Mail	<i>bahattinkoc@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/bahattinkoc/</i>
Research Area Keywords	<i>Computer-Aided Design and Manufacturing, Additive Manufacturing (3D Printing), Tissue/Organ Engineering, Nano/Micro-Scale Modeling and Manufacturing.</i>
Current Research Activities	<i>Dr. Koç's research interests include i) 3D bioprinting/biomanufacturing for tissue and organ engineering; ii) computational geometry and optimization for additive manufacturing process; iii) heterogenous, multi-functional object modeling and manufacturing; iv) nano-micro additive manufacturing of composite materials; v) process planning and development for hybrid additive-subtractive processes. Dr. Koç's research goal is to develop novel integrated computational design and manufacturing strategies and techniques for geometrically and functionally complex parts for various applications in areas like biomedical engineering, medicine, consumer products, aerospace and automotive engineering.</i>

YUSUF MENCELOĞLU (FACULTY MEMBER)

Area	<i>Manufacturing Engineering/Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9535</i>
E-Mail	<i>yusufm@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yusufm/</i>
Research Area Keywords	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>

LÜTFİ TANER TUNÇ (FACULTY MEMBER)

Area	<i>Manufacturing Engineering/Industrial Engineering</i>
Phone	<i>90 (216) 300 1305</i>
E-Mail	<i>ttunc@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ttunc/</i>
Research Area Keywords	<i>Robotic Manufacturing, Machine Tools, Machining Processes, CAD-CAM, 5-axis Milling.</i>
Current Research Activities	<i>Modelling and Simulation of Machining Processes & Systems/ Tool path generation and modification approaches for sculptured surface milling/Selection of Machining Strategies/ Tool path generation for automated fibre placement systems/ Enhanced Accuracy for Robotic Milling/Modelling of 5-axis Abrasive Waterjet Cutting Processes.</i>

MUSTAFA ÜNEL (FACULTY MEMBER)

Area	<i>Manufacturing Engineering/Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9549</i>
E-Mail	<i>munel@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/munel</i>
Research Area Keywords	<i>Computer Vision, Control Systems, Robotics.</i>
Current Research Activities	<i>Micro-nano imaging and visualization of hydrodynamic cavitation bubbles, Visual tracking of cavitation droplets/bubbles, System identification for dynamic calibration of diesel engines, Robust and high performance airpath control techniques for diesel engines Stabilization of robotic platforms using acceleration control, Development of sensor fusion methods for GPS integrated INS systems, Image stitching and mosaicing of aerial images, Design, development and control of unmanned aerial vehicles (UAV) Adaptive control of quadrotor type helicopters, Activity recognition using depth images, Visual servoing, Robotics manufacturing, Unconventional manufacturing.</i>

MEHMET YILDIZ (VICE PRESIDENT FOR RESEARCH AND DEVELOPMENT, DIRECTOR FOR SABANCI UNIVERSITY INTEGRATED MANUFACTURING TECHNOLOGIES RESEARCH AND APPLICATION CENTER, FACULTY MEMBER)

Area	<i>Manufacturing Engineering / Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9517</i>
E-Mail	<i>meyildiz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~meyildiz/</i>
Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My current research focuses on the experimental and computational aspects of materials processing with emphasis on advanced polymer-based composite materials and crystal growth. I have been conducting research on manufacturing polymer-based composite materials for applications in aircraft structures and structural health management of fiber-reinforced advanced composite structures with embedded fiber optic FBG sensor arrays. Within the framework of my research on composite materials, I am also involved in a collaborative research activity on nanoparticle-integrated composite materials. I am currently setting-up a crystal growth laboratory to grow Silicon-Germanium single crystals from the silicon-rich side of the phase diagram. I have also been actively working on the development of meshless computational fluid dynamics algorithms by using Smoothed Particle Hydrodynamics (SPH) Method for simulating complex engineering problems, such as free surface flow, multiphase flow and solidification.</i>

ÖZGE AKBULUT (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9668</i>
E-Mail	<i>ozgeakbulut@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/ozgeakbulut/index.html</i>
Research Area Keywords	<i>Composite Materials, Cement, Rheology of Ceramics, Silicone-Based Composite Materials.</i>
Current Research Activities	<i>Design and fabrication of silicone-based tissue and organ models as simulation tools for surgical trainings. Preparation of ceramic- and metal-based inks for additive manufacturing. Optimization of cement rheology through the design of superplasticizers for various different types of cement. Dr. Akbulut works on silicone-based composite materials and optimization of the rheological properties of ceramics. Her main application area in composite materials is the fabrication of synthetic organ models for surgical simulations. Her rheology research focuses on the control of workability of cement and inks for additive manufacturing.</i>

SELMİYE ALKAN GÜRSEL (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9573</i>
E-Mail	<i>selmiye@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/~selmiye/</i>
Research Area Keywords	<i>Fuel Cells, Proton-Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium-ion Batteries, Artificial Muscles, Conducting Polymers</i>
Current Research Activities	<i>Synthesis & Characterization of Proton Exchange Membranes for Fuel Cells, Graphene-based Electrodes & Catalyst Supports for Fuel Cells, Radiation-induced Grafting, Micro-Nanomaterials for Artificial Muscles, Electrodes and Electrolytes for Lithium-ion Batteries, Electrochemical Synthesis & Characterization of Conducting Polymers.</i>

ALİ RANA ATILGAN (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Industrial Engineering</i>
Phone	<i>90 (216) 483 9525</i>
E-Mail	<i>atilgan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/atilgan/</i>
Research Area Keywords	<i>Biological Physics and Systems Science.</i>
Current Research Activities	<i>We identify interactions in biological and social systems and trace their communication pathways on different time and length scales. We parse out the relationships between local motifs and global patterns in complex networks. These activities find technological applications in devising molecular machines and system identification tools.</i>

CANAN ATILGAN (DEAN)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9501</i>
E-Mail	<i>canan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/canan</i>
Research Area Keywords	<i>Polymer and Protein Dynamics, Theoretical and Computational Investigation of Complex Molecular Systems.</i>
Current Research Activities	<i>Conformational and dynamical response of proteins to environmental changes such as pH and ionic strength, effect of point mutations to antibiotic resistance, understanding self-assembly principles of oligomers for nanoparticle applications, development of multiscale methods for investigating dynamical features of macromolecules that act as nanomachines.</i>

FEVZİ ÇAKMAK CEBECİ (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9877</i>
E-Mail	<i>fccebeci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/fccebeci/</i>
Research Area Keywords	<i>Corrosion, Electrochemistry, Energy Storage, Materials Chemistry, Mechanical Behavior of Materials, Nanotechnology, Polymers, Thin Films.</i>
Current Research Activities	<i>Dr. Cebeci's research currently focuses on designing hybrid supercapacitors with vertically aligned carbon nanotubes as an active electrode component and conducting polymer as a redox-active component; new electrode materials for lithium-ion batteries based on carbon nanofibers and carbon nanotubes; polyelectrolyte and nanoparticle thin films prepared by a layer-by-layer technique for corrosion protection; and nanofiber based nanocomposites for artificial muscle applications.</i>

EMRE ERDEM (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9881</i>
E-Mail	<i>emreerdem@sabanciuniv.edu</i>
Web	<i>https://fens.sabanciuniv.edu/tr/fakulte-uyeleri/detail/3233</i>
Research Area Keywords	<i>Physics of Materials; Spectroscopy (EPR, Raman, Photoluminescence, Impedance); Physical Chemistry; Solid State Physics; Graphene; Carbon Dots; Semiconductors; Nanoparticles and Nanocrystals; Ceramics; Powder Processing; Phase Transitions; Photovoltaics; Solar Cells; Thermoelectrics; Supercapacitors, Li-ion Batteries; Piezoelectric Nanowires and Nanogenerators; Wearable Electronics; Energy Harvesting and Storage; Electrical Vehicles; Microelectronic Systems; Battery Management Systems; Grippers for Robot Arms, Materials for Grippers; Thin Film Batteries.</i>
Current Research Activities	<i>The focus of my research activities lies on experimental materials engineering, solid state physics and preparative chemistry of multifunctional nanomaterials. The strong interconnection of tailor-made functional materials and</i>

Current Research
Activities

the solid state or physical characterization of functional properties are highly important for solving complex issues in the field of materials science. In this context, white light-emitting diodes, printable electronics, ceramic actuators, graphene-based supercapacitors and spinel-type anode/cathode materials for Li-ion batteries shall be mentioned as prominent examples in the area of energy harvesting and storage.

With my research team at Sabanci University, we are working on understanding and establishment of structure-function relationships of solid-state energy materials. This means that material manipulation on the molecular scale (by smart synthesis) and on the mesoscopic scale (by size and morphology tuning) are used to tailor-make functional properties. On the molecular scale, we have synthesized and developed polymeric, hybrid and ceramic solid materials. On the mesoscopic scale, to study electronic, vibrational, electric and optical properties of resulting products and structures, bottom-up and top-down approaches have been used to synthesize micron-, nano- and quantum dot-sized structures that are characterized not only by high-resolution microscopic techniques, such as scanning and transmission electron microscopy (SEM/TEM), but also by physical characterization and spectroscopic techniques, such as electron paramagnetic resonance (EPR), Raman, impedance and photoluminescence (PL). Specifically, we are using enhanced spectroscopic methods, such as impedance spectroscopy, as the main tool to study conductivity, charge transport and other electrical properties in solid-state electronic and ionic systems. This highly fundamental research approach is closely related to nano-technological and energy harvesting applications.

MEHMET ALİ GÜLGÜN (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9536</i>
E-Mail	<i>m-gulgun@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/m-gulgun</i>
Research Area Keywords	<i>Ceramics, Electron Microscopy and Spectroscopy, Ion Conductors, Fuel Cells, Batteries, Cementitious Materials, and Oxide Synthesis.</i>
Current Research Activities	<i>The research activities of our group lie in four major areas: I. microstructural engineering through sintering, densification and grain growth in functional polycrystalline ceramics; II. fast ion-transporting materials for fuel cells, solar cells, Li-Ion batteries, and conventional wet batteries; III. synthesis of oxide ceramics with tailored optical properties for phosphorescent or thermochromic applications; IV. finding a more environmentally friendly low-temperature production alternative for cementitious materials in severe environments, including construction materials for space-explorations. In our research activities, we use electron microscopy and spectroscopy extensively to unveil the origins of material behaviour.</i>

GÖZDE İNCE (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9878</i>
E-Mail	<i>gozdeince@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/gozdeince/</i>
Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication and Characterization of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our current research focuses on stimuli-responsive polymer thin-films and nanostructures. We develop different types of stimuli-responsive polymers and study their response behavior under different conditions. In addition to these fundamental studies, we also fabricate thin-films and polymer nanostructures with optimized response characteristics for various applications, including drug-delivery, biological sensors, responsive coatings and separation membranes.</i>

CENGİZ KAYA (DIRECTOR FOR RESEARCH AND GRADUATE POLICIES, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9666</i>
E-Mail	<i>cengizkaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/cengizkaya</i>
Research Area Keywords	<i>Synthesis of Nanostructures, Nanotubes, Ceramic Composites, Coatings, Electrophoretic Deposition, Hydrothermal Synthesis, Biomaterials.</i>
Current Research Activities	<i>Boron carbide-reinforced polymer composites for shielding applications, development of SiC fibre-reinforced ceramic composites.</i>

YUSUF MENCELOĞLU (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9535</i>
E-Mail	<i>yusufm@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yusufm/</i>
Research Area Keywords	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>

BURÇ MISIRLIOĞLU (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9562</i>
E-Mail	<i>burc@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/burc/</i>
Research Area Keywords	<i>Ferroelectricity, Thin Films, Devices.</i>
Current Research Activities	<i>Ferroelectric Based Solid State Memory, Phase Transitions in Thin Films, Functionally Graded Structures, Nanomagnetism.</i>

M. BARIŞ OKATAN (POSTDOCTORAL RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9000</i>
E-Mail	<i>okatan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Ferroids, Thin Films, Data Analysis & Visualization.</i>
Current Research Activities	<i>Finite element modelling of electrocaloric effect in relaxor ferroelectrics; implementing data-driven artificial intelligence techniques, e.g. deep neural networks, for semantic segmentation of FISH images.</i>

CLEVA OW-YANG (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9592</i>
E-Mail	<i>cleva@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/cleva</i>
Research Area Keywords	<i>Phosphors, Transmission Electron Microscopy, Optical Materials, Photovoltaics, Materials Characterization, Structure-Property Relationships, Thin Films, Interfaces, Thermodynamics, Phase Transformation.</i>
Current Research Activities	<i>Developing long afterglow in ceramic phosphors, nanotechnology in photovoltaics, applying advanced TEM techniques toward understanding structure-property relationships, effect of cooperative behavior and symmetry on material properties, thin film interfaces, phase transformation behavior, materials for sensors.</i>

MELİH PAPİLA (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9546</i>
E-Mail	<i>mpapila@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~mpapila/</i>
Research Area Keywords	<i>Smart Electroactive Materials, Composite Materials, Virtual Testing and Characterization of Materials, Structural Optimization, Experiment-based Optimization and Surrogate Models.</i>
Current Research Activities	<i>Composite materials research pursues two directions based on their functional use in engineering design and applications. In structural composites, nanoscale materials, such as electrospun nanofibers, are incorporated into conventional composite materials applications to enhance their mechanical properties. The mechanical behavior of these nano-integrated hybrid composites is studied through multi-scale modeling and experiments. Unconventional methods of composite design are also explored by integrating finite element analyses, optimization techniques, micromechanics of failure (MMF) and durability of materials/structures. Design optimization of slender structures, such as wind turbine blades and wing structures, is of particular interest. Smart composites, such as electroactive composites for actuation, sensing and energy harvesting are processed and identified. Ionic polymer metal composites (IPMC) and piezoelectric ceramic fiber/polymer, also called macro fiber composites (MFC), are of particular interest. These materials are incorporated in engineering applications, such as micro air vehicles.</i>

**MEHMET YILDIZ (VICE PRESIDENT FOR RESEARCH AND
DEVELOPMENT, DIRECTOR FOR
SABANCI UNIVERSITY INTEGRATED MANUFACTURING
TECHNOLOGIES RESEARCH AND APPLICATION CENTER,
FACULTY MEMBER)**

Area	<i>Materials Science and Nano Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9517</i>
E-Mail	<i>meyildiz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~meyildiz/</i>
Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My current research focuses on the experimental and computational aspects of materials processing with emphasis on advanced polymer-based composite materials and crystal growth. I have been conducting research on manufacturing polymer-based composite materials for applications in aircraft structures and structural health management of fiber-reinforced advanced composite structures with embedded fiber optic FBG sensor arrays. Within the framework of my research on composite materials, I am also involved in a collaborative research activity on nanoparticle-integrated composite materials. I am currently setting-up a crystal growth laboratory to grow Silicon-Germanium single crystals from the silicon-rich side of the phase diagram. I have also been actively working on the development of meshless computational fluid dynamics algorithms by using Smoothed Particle Hydrodynamics (SPH) Method for simulating complex engineering problems, such as free surface flow, multiphase flow and solidification.</i>

NURDAGÜL ANBAR (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9517</i>
E-Mail	<i>nanbar@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nanbar/</i>
Research Area Keywords	<i>Finite Fields, Function Fields, Coding Theory, Cryptology, Finite Geometry.</i>
Current Research Activities	<i>Function Fields and Algebraic Curves over Finite Fields: rational points of curves, automorphisms, towers of function fields and their asymptotic properties, Drinfeld modular curves Coding Theory: Algebraic Geometry Codes Finite Galois Geometry and Cryptographically significant functions (particularly quadratic functions, their nonlinearity distribution), their applications to Coding Theory and their interaction with Algebraic Curves over Finite Fields. Boolean functions and functions from F_{p^n} to F_p: Functions with high nonlinearity, Bent functions and their connections to coding theory, cryptography, finite geometry, and difference sets. Permutations: (Vectorial) Permutations over finite fields</i>

TURGAY BAYRAKTAR (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9513</i>
E-Mail	<i>tbayraktar@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/tbayraktar</i>
Research Area Keywords	<i>Holomorphic Dynamics, Complex Geometry and Probability.</i>
Current Research Activities	<i>Ergodic properties of holomorphic endomorphisms on complex manifolds. Classification of complex varieties admitting dynamically interesting holomorphic self-maps. Asymptotic zero distribution of random polynomials and random holomorphic sections. Bergman kernel asymptotics, L^2-estimates for d-bar, random matrices.</i>

NİLAY DURUK MUTLUBAŞ (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9539</i>
E-Mail	<i>nilaydm@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nilaydm/</i>
Research Area Keywords	<i>Partial Differential Equations, Qualitative Properties of Solutions, Wave Propagation, Functional Analysis.</i>
Current Research Activities	<p><i>My research interests lie mainly in the area of mathematical analysis of nonlinear nonlocal partial differential equations modeling dispersive waves. I use some functional analytical techniques and analyze qualitative properties of the solutions, such as well-posedness, blow-up and stability. I am particularly interested in water waves and consider wave models for shallow water regimes.</i></p> <p><i>Recently, I have been working on stability analysis of a certain class of model equations for shallow water waves in which both small- and large-amplitude waves appear. Besides, I deal with a recently proposed model which involves fractional differential equations. I find it interesting to have interpretations for those fractional-type equations since they reduce to well-known shallow water wave models for specific cases.</i></p> <p><i>Due to my research interests, I have joint projects with Handan Borluk (Özyeğin Univ.), Anna Geyer (TU Delft), Ronald Quirchmayr (KTH Royal Institute of Technology), and Delia Ionescu (IMAR).</i></p>

ALBERT ERKİP (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9508</i>
E-Mail	<i>albert@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/albert/</i>
Research Area Keywords	<i>Partial Differential Equations, Pseudo-Differential Operators, Functional Analysis.</i>
Current Research Activities	<i>Initial wave problems for nonlocal nonlinear wave-type (Boussinesq type) partial differential equations.</i>

NİHAT GÖKHAN GÖĞÜŞ (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9615</i>
E-Mail	<i>nggogus@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nggogus/</i>
Research Area Keywords	<i>Complex Analysis, Pluripotential Theory, Function Spaces, Jensen Measures.</i>
Current Research Activities	<i>Pluripotential theory is roughly the theory of plurisubharmonic functions. It has developed in multidimensional complex analysis in the last fifty years. My research can be included in the common area of the subjects, such as pluripotential theory, geometric function theory, and approximation theory.</i>

CEM GÜNERİ (VICE PRESIDENT FOR EDUCATION, FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9521</i>
E-Mail	<i>guneri@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~guneri/</i>
Research Area Keywords	<i>Algebraic Coding Theory, Algebraic Curves, Finite Fields.</i>
Current Research Activities	<i>Various generalizations of cyclic codes and their algebraic structures, properties, linear complementary dual codes in relation to cryptographic applications.</i>

KAĞAN KURŞUNGÖZ (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9964</i>
E-Mail	<i>kursungoz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~kursungoz/</i>
Research Area Keywords	<i>Integer Partitions, Enumerative Combinatorics.</i>
Current Research Activities	<i>Working on proving the four remaining conjectured integer partition identities of Kanade and Russell, two of which have recently been proven by another research group. This project is supported by TÜBİTAK 1001 project number 118F050. Also working on producing Andrews-Gordon type evidently positive series for various partition enumerants, the current goal is Siladic's partition identity. Has one MSc and two PhD students.</i>

MICHEL LAVRAUW (FACULTY MEMBER)	
Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9033</i>
E-Mail	<i>mlavrauw@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~mlavrauw</i>
Research Area Keywords	<i>My research is focussed on the areas of Combinatorics, Algebra, Finite Geometry, Incidence Geometry, Finite Fields and Coding Theory. More specifically, Finite Semifields (Non-Associative Division Algebras), Projective Planes, Segre Varieties, Geometry of Tensor Product Spaces, Veronese Varieties, Translation Generalised Quadrangles (Equivalent to the Theory of Eggs in Projective Spaces), Polynomial Techniques in Finite Geometry, Arcs in Projective Spaces, MDS Codes, Field Reduction Techniques, Linear Sets and the Links Between Incidence Geometry and Coding Theory.</i>
Current Research Activities	<i>Joint projects with John Sheekey (University College Dublin, Ireland) on the theory of finite semifields; with Tomasz Popiel (Queen Marie University London, UK) on the classification of subspaces of symmetric tensors; with Jan De Beule and Philippe Cara (VUB Brussels, Belgium) on FinInG (a computer algebra GAP package for Finite Incidence Geometry); with Morgan Rodgers (California State University, Fresno, USA) on the classification of finite semifields; with John Bamberg (University of Western Australia, Australia) on FinInG and on Generalised Quadrangles (the latter together with Tim Penttala (Colorado State University, USA), and with Simeon Ball (UPC, Barcelona, Spain) on MDS codes and arcs in projective planes.</i>

AYESHA ASLOOB QUERESHI (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9943</i>
E-Mail	<i>aqureshi@sabanciuniv.edu</i>
Web	<i>https://math.sabanciuniv.edu/en/people/faculty</i>
Research Area Keywords	<i>Binomial Ideals, Gröbner Basis, Koszul Algebras, Poset Theory, Lattice Ideals, Powers of Ideals.</i>
Current Research Activities	<i>My research interest lies at the intersection of Commutative and Computational Algebra, Combinatorics and Algebraic Statistics. Recently, my research has been centered around the topics concerning investigation of questions related to binomial ideals, toric rings, Koszul Algebras and their filtrations, lattice ideals, combinatorics of partially ordered sets, application of Gröbner bases, and algebraic and homological properties of powers of ideals. My strong interest in ideals is generated by binomials, and more specifically, ideals generated by the minors of a matrix that come from Algebraic Statistics where such ideals naturally arise.</i>

MOHAMMED SADEK (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9598</i>
E-Mail	<i>mmsadek@sabanciuniv.edu</i>
Web	<i>https://math.sabanciuniv.edu/en/people/faculty</i>
Research Area Keywords	<i>Computational Number Theory, Arithmetic of Elliptic Curve, Diophantine Equations.</i>
Current Research Activities	<i>The researcher is currently interested in arithmetic dynamical systems and their links to algebraic curves over finite fields and number fields. The researcher is also concerned with density questions of elliptic curves with certain conductors. Minimal Regular Models of Quadratic Twists of Genus Two Curves, Acta Arithmetica, Volume 183, Number 4 (2018), 317-337 On Rational Triangles via Algebraic Curves (with Farida Shahata), Rocky Mountain Journal of Mathematics, Volume 48, Number 1 (2018), 325-343</i>

Current Research Activities	<p><i>On Sequences of Consecutive Squares on Elliptic Curves (with Mohamed Kamel), Glasnik Matemacki Series III, Volume 52, Number 1 (2017), 45-52</i></p> <p><i>New Hypergeometric Connection Formulae between Fibonacci and Chebyshev Polynomials (with Waleed M. Abd-Elhameed, Youssri H. Youssri and Nermine El-Sissi), The Ramanujan Journal, Volume 42, Number 2 (2017), 347-361</i></p> <p><i>High Rank Quadratic Twists of Pairs of Elliptic Curves (with Mohamed Alaa), Journal of Number Theory, Volume 174 (2017), 436-444</i></p>
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MERVE SENEM SEVEN (POSTDOCTORAL RESEARCH FELLOW)

Area	<i>Mathematics</i>
Phone	90 (216) 483 9000/2359
E-Mail	senemseven@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/
Research Area Keywords	<p><i>Polymer Processing, Theoretical and Computational Investigation Structure-Property-Function Relationship of Polymeric Systems, Micro Fabrication, Molecularly Imprinted Polymers.</i></p>
Current Research Activities	<p><i>Preparation of natural nanotubes/polymeric film composites with controlled release functions.</i></p> <p><i>Atomistic and mesoscale molecular dynamics simulations to investigate the structure-morphology-function relationship in segmented poly(urethane-urea) copolymers, polyurethane elastomers and their nanocomposites.</i></p> <p><i>Microfabrication of sensor systems composed of thin-layer polymers or polymer arrays as sensor probe and carbon-based transducers; their applications in environmental pollutants. Synthesis, characterization and modification of macromolecules under unusual reaction conditions, such as frozen reactions.</i></p>

SEMİH ONUR SEZER (FACULTY MEMBER)

Area	<i>Mathematics / Industrial Engineering</i>
Phone	<i>90 (216) 483 9586</i>
E-Mail	<i>sezer@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/sezer/</i>
Research Area Keywords	<i>Stochastic Processes, Martingales, Markov Processes, Lévy Processes, Random Measures, Optimal Stopping, Stochastic Optimal Control, Bayesian Sequential Analysis, Sequential Change Detection, Hypothesis Testing, Valuation and Hedging of Contingent Claims, Real Options, Revenue Management, Stochastic Inventory Control.</i>
Current Research Activities	<p><i>Dr. Sezer's current research includes applications of the stochastic optimal control theory in sequential analysis, production management, and financial engineering.</i></p> <p><i>In sequential analysis, there has been a developing interest in the literature on change detection and hypothesis testing problems due to their important applications in environment monitoring. Dr. Sezer is currently working on the extensions of these problems for continuous time-processes, his particular interest being the problems with Poisson and Wiener processes.</i></p> <p><i>Dr. Sezer's work in production management focuses on the inventory control problems. For the problems involving a single procurement decision, the earlier work in the literature generally brings static policies. As a contribution to and improvement of this earlier work, Dr. Sezer is currently working on dynamic policies that can be easily implemented in practice.</i></p> <p><i>Finally, Dr. Sezer's research in financial engineering is on dividend optimization problems for jump-diffusion processes which involve second order free boundary problems with integral operators and are known to be much more difficult than those with pure diffusion. Dr. Sezer is currently working on novel probabilistic techniques to solve these more difficult problems.</i></p>

HENNING STICHTENOTH (EMERITUS PROFESSOR)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9581</i>
E-Mail	<i>henning@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/henning/</i>
Research Area Keywords	<i>Algebraic Function Fields and Curves, Especially in Characteristic $p>0$, Coding Theory, Algebraic Geometry Codes.</i>
Current Research Activities	<i>Analysis of recursive towers of function fields (finiteness of ramification locus, bounded ramification, non-trivial splitting locus, behaviour of the p-rank, etc.). Construction of curves over finite fields with prescribed properties (like number of rational points, points of higher degree, automorphism groups).</i>

YASEMİN ŞENGÜL (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9541</i>
E-Mail	<i>yaseminsengul@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/yaseminsengul/</i>
Research Area Keywords	<i>Nonlinear Partial Differential Equations, Infinite-Dimensional Dynamical Systems, Gradient Flows, Elasticity, Solid Mechanics.</i>
Current Research Activities	<i>My current research is mostly related to the strain-limiting theory of elastic solids for which I work on a nonlinear viscoelastic model written in terms of stress rather than displacement, and where the nonlinearity is on the inertia term, as opposed to the classical models. Additionally, I study generalized solutions of some equations with discontinuities of 1-Laplacian type, as well as nonlinear models resulting from dynamics of elastic solids undergoing phase transformations.</i>

ALEV TOPUZOĞLU (FACULTY MEMBER)

Area	<i>Mathematics</i>
Phone	<i>90 (216) 483 9507</i>
E-Mail	<i>alev@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~alev/</i>
Research Area Keywords	<i>Uniformly Distributed Sequences, Finite Fields and Their Applications, Pseudorandom Sequences, Permutation Polynomials.</i>
Current Research Activities	<i>Univariate and multivariate permutation polynomials over finite fields and their applications, distribution of degrees of irreducible factors of permutation polynomials, properties of random permutation polynomials; partially bent functions, their generalizations, and corresponding difference sets.</i>

MAHMUT FARUK AKŞİT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9598</i>
E-Mail	<i>aksit@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~aksit/</i>
Research Area Keywords	<i>Advanced Seals, Tribology: Friction, Wear & Lubrication; Gas, Steam, Wind & Hydro Turbines; Taguchi Robust Design.</i>
Current Research Activities	<i>Wind Turbines: design and development of large industrial wind turbine structures, tuned mass tower damping systems. Advanced Seals: oil-free foil bearings for gas turbine applications, use of foil bearings as engine seals. Development of high temperature compact actuators for gas turbine shroud applications. Design of unmanned aerial vehicle structures. Tribopair characterization for hermetic compressor bearings under Iso-buthane atmosphere.</i>

BEKİR BEDİZ (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9543</i>
E-Mail	<i>bbediz@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Structural Dynamics, Vibrations, Biomechanics, Micro-manufacturing.</i>
Current Research Activities	<i>Modeling three-dimensional dynamics of complex structures Prediction of micromachining dynamics Micromachining applications Modal testing of miniature structures</i>

ERHAN BUDAK (FACULTY MEMBER)

Area	<i>Mechatronics Engineering / Manufacturing Engineering / Industrial Engineering</i>
Phone	<i>90 (216) 483 9519</i>
E-Mail	<i>ebudak@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~ebudak/</i>
Research Area Keywords	<i>Manufacturing Engineering, Machining Processes and Machine Tools, Machine Dynamics.</i>
Current Research Activities	<i>Modeling of machining processes, stability of multi-tasking and parallel machining, high performance abrasive machining processes, machining of high temperature aerospace alloys, optimal design of machine tool structures, thermal modeling of cutting processes, optimal design of special milling tools.</i>

EBRU DEMİR (POSTDOCTORAL RESEARCH FELLOW)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9000/2313</i>
E-Mail	<i>ebrudemir@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/edemir</i>
Research Area Keywords	<i>Helical Microswimmers, Swimming of Spheres, Bioinspired Engineering, Low Reynolds Number Swimming.</i>
Current Research Activities	<i>Experimental and numerical fluid dynamics studies for designing and navigating helical tail swimmers and rigid spheres inside cylindrical channels.</i>

ERALP DEMİR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering / Manufacturing Engineering / Industrial Engineering</i>
Phone	<i>90 (216) 300 1354</i>
E-Mail	<i>eralpd@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Composite Mechanics, Crystal Plasticity Finite Elements, Mechanical Size Effects, Residual Stress Measurements from Lattice Strains.</i>
Current Research Activities	<i>Modeling of Composites Mechanics for Curvilinear Fiber Placement Method Finite Element Modeling of Crystal Plasticity Physically-Based Models for Single Crystal Plasticity Modeling of Anisotropy and Texture Evolution during Metal Forming Processes.</i>

MELTEM ELİTAŞ (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9568</i>
E-Mail	<i>melitas@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Biomechanics, Biomedical, Microfluidics, Microscopy, Cancer-Immune Cell Interactions, Laparoscopic Tools.</i>
Current Research Activities	<i>Our research interests are in the direction of developing tools and methods for quantitative biology. We aim to modify traditional batch culture methods and develop novel microfabricated tools, mostly compatible with microscopy, to precisely measure and quantitatively characterize cellular behavior for various cell types ranging from bacteria to mammalian cells. Production of diagnostic and monitoring devices for point-of-care testing using obtained quantitative data and developed technologies for fundamental biological concepts are among our primary research goals. Understanding of Hepatocellular Cancer Biology and Sorafenib-Killing Mechanisms. Collaboration with Prof. Dr. Serdar Turhal (ASM), Prof. Dr. Tamer Yagci (GTU).</i>

Current Research Activities	<p><i>Development and Implementation of Dielectrophoretic Technologies to Characterize Cellular Properties.– Collaboration with Prof. Dr. Rodrigo Martinez-Duarte (Clemson University), Prof. Dr. Philippe Renaud (EPFL).</i></p> <p><i>Development of Microfluidic Platform for Arabidopsis thaliana-Root Phenotyping for Abiotic Stress Studies. –Collaboration with Prof. Dr. Hikmet Budak (Sabanci University).</i></p> <p><i>Tumor-Macrophage Paracrine Signaling in Glioblastoma Brain Cancers.–Collaboration with Prof. Rong Fan (Yale University).</i></p> <p><i>Laparoscopic Tools and Robotic Surgery.-Collaboration with Assoc. Dr. Tugrul Tansug (Gebze Konak Hospital).</i></p>
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KEMALETTİN ERBATOR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9585</i>
E-Mail	<i>erbatur@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~erbatur/</i>
Research Area Keywords	<i>Intelligent Motion Control, Humanoid Robots, Industrial Robotics, Force Control.</i>
Current Research Activities	<i>Design, construction and control of full-body bipedal humanoid robots: Construction of a 29 degrees of freedom full-body humanoid. Explored Zero Moment Point based reference trajectory generation and multi-sensor feedback and applied in humanoid robot walking control. Also developed momentum based walking techniques. Design, construction and control of industrial robot manipulators: Designed a number of manipulators. Investigated the use of integrated force and visual feedback in manipulator control.</i>

GÜLLÜ KIZILTAŞ ŞENDUR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9584</i>
E-Mail	<i>gkiziltas@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~gkiziltas/</i>
Research Area Keywords	<i>Topology Optimization, Multi-Disciplinary Optimization (MDO), Metamaterials, Computational Electromagnetics, Antenna Design, Finite Element Analysis, Design of Coupled Systems, Tissue Engineering, Micro-CT, Multi-Material Ceramic-Polymer Fabrication, Solid Free Form Fabrication.</i>
Current Research Activities	<i>Dr. Kiziltas Sendur's research theme centers on the design and fabrication of complex materials-based engineering systems for mechatronic, electromagnetic, and biomedical applications. Her research efforts focus on: 1) Topology optimization design methods for electromagnetic applications (in particular antennas and filters), and the design and fabrication of artificially engineered electromagnetic materials/metamaterials; 2) Development of multi-disciplinary optimization (MDO) methods for mechatronic systems in particular robotic systems; 3) Topology optimization and fabrication of bone scaffolds and micro-CT characterization for tissue engineering; 4) Finite element analysis-based optimal design of coupled engineering systems (in particular solid-fluid-electromagnetically coupled systems); and 5) Advanced fabrication of functionally graded ceramic-polymer composite materials in particular using extrusion, tape and freeze casting and 3D printing systems.</i>

**ALİ KOŞAR (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR
FUNCTIONAL SURFACES AND INTERFACES,
FACULTY MEMBER)**

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9621</i>
E-Mail	<i>kosara@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~kosara/</i>
Research Area Keywords	<i>Micro and Nano Scale Heat Transfer, Micro and Nano Flows, Boiling Heat Transfer, Cavitation, Microfluidics, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Koşar is one of few pioneers in the design and development of new generation micro heat sinks and microfluidic devices. His research interests constitute a spectrum covering heat and fluid flow on a micro/nano scale, forced convection, multi-phase flow, and cavitation. He aims at contributing to the literature by addressing the lack of information about micro/nano scale heat transfer and fluid flow and providing experimental data and design guidelines for futuristic cooling and microfluidic system technologies. He has broad experience and knowledge on various types of experiments on heat and fluid flow and phase change phenomena on the micro/nano scale. His research made significant contributions to the scientific knowledge in heat and fluid flow in the micro/nano domains. The results of his research have already generated many published journal research articles which have been published in prestigious journals like Microfluidics and Nanofluidics, Applied Physics Letters, Journal of Heat Transfer, Journal of Microelectromechanical Systems and the International Journal of Heat and Mass Transfer.</i>

AHMET ONAT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9538</i>
E-Mail	<i>onat@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~onat</i>
Research Area Keywords	<i>Networked Control Systems, Real-Time and Embedded Systems, Real-Time Communication, Linear Synchronous Motor Design Implementation and Control, Linear Motor Vertical Applications, Automatic Control, Fault Diagnosis. Previously: Artificial Intelligence, Learning Algorithms, and Artificial Neural Networks.</i>
Current Research Activities	<p><i>Dr. Onat is currently working on the following areas:</i></p> <p><i>Networked control systems: Networked control systems where the sensors, controller and actuators of a digital controller reside on different computer nodes linked by a communications network aim to overcome the disadvantages of conventional digital control systems, such as difficulty of modification, vulnerability to electrical noise, and difficulty in maintenance and upgrades at the application level. However, data delay and loss on the network may destabilize the plant. We have proposed a novel networked control method where satisfactory control is possible even under random delay and data loss by referring to a model of the plant to predict states of the plant under such conditions. The proposed method has good performance compared to other methods.</i></p> <p><i>Design of synchronous linear motors for vertical applications: Vertical applications place high demands on the design of linear motors because the magnetic circuit must enable high thrust to weight ratio while realizing high efficiency, low force ripple while maintaining an ease and low cost of manufacturing, maintainance and lifespan.</i></p> <p><i>We have designed and built linear motors that satisfy these requirements and proposed a composite design optimization method based on nonlinear magnetic modeling and finite element analysis. Theoretical studies and simulations have been backed by full scale vertical linear motor prototypes capable of 150-450kgf net lift capability at speeds up to 2.5m/s with regular supply voltages. The research is funded by a world leading Japanese elevator company.</i></p> <p><i>Remote fault detection and prognosis for commercial vehicles: Work on this area with collaboration from a manufacturer has been carried out where new methods of fault diagnosis and recovery have been proposed, enabling auto makers to foresee some of the impending failures on customer vehicles in the field.</i></p>

VOLKAN PATOĞLU (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9604</i>
E-Mail	<i>vpatoglu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/vpatoglu/</i>
Research Area Keywords	<i>Physical Human-Robot Interaction, Rehabilitation Robotics, Bilateral Teleoperation, Haptic Interfaces and Force-Feedback Exoskeletons, Human Motor Control and Learning, Human-Friendly Service Robotics, Cognitive Robotics.</i>
Current Research Activities	<p><i>Dr. Patoğlu's research focuses on the design, control, implementation and evaluation of mechatronic systems that are capable of haptic interaction – physical interaction with the user through the sense of touch. In particular, we develop principles and tools to enable physical human-robot interaction (pHRI) with a systems and controls perspective. Our research extends to synthesizing algorithms for simulated physical interaction with virtual environments (haptic rendering) and exploring the control theoretical framework of the human sensorimotor system through empirical investigations of skill acquisition. A complementary focus area is cognitive robotics, where we are concerned with endowing robotic or software agents with higher level cognitive functions that involve reasoning, for example, about goals, perception, actions, the mental states of other agents and collaborative task execution.</i></p> <p><i>Applications of our research include robotic devices for physical rehabilitation, active exoskeletons and prostheses for human augmentation, force-feedback devices for robot-assisted surgery, haptic interfaces for manual skill training, teleoperators for exploration of hazardous or remote environments, x-by-wire systems for the automotive/aerospace industry, and intelligent service robots for collaborative task execution with humans.</i></p>

ASIF ŞABANOVIÇ (EMERITUS PROFESSOR)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9529</i>
E-Mail	<i>asif@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/asif/</i>
Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/ Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently projects in micro-part manipulation, bilatellar control with variable time delay, design and control of flexure based nano-positioners, software for reconfigurable real time motion control systems, hierachy and dynamical decoupling in multi-body motion control systems are under way.</i>

KÜRŞAT ŞENDUR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9527</i>
E-Mail	<i>sendur@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/sendur/</i>
Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current research activities include nano-optical transducers, heat assisted magnetic recording, near-field optics, electromagnetics, near-field radiative heat transfer, nano- antennas, modeling, design and manufacturing of nano- optical systems.</i>

MELİH TÜRKSEVEN (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9542</i>
E-Mail	<i>melih.turkseven@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/melihurkseven</i>
Research Area Keywords	<i>Design and Control of Dynamic Systems, Physical Human-Machine Interaction, Soft Robotics.</i>
Current Research Activities	<i>Design and control of compliant actuators, model-based control of pneumatically driven systems, design of haptic interfaces for virtual-reality simulations.</i>

MUSTAFA ÜNEL (FACULTY MEMBER)

Area	<i>Mechatronics Engineering/Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9549</i>
E-Mail	<i>munel@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/munel</i>
Research Area Keywords	<i>Computer Vision, Control Systems, Robotics.</i>
Current Research Activities	<i>Micro-nano imaging and visualization of hydrodynamic cavitation bubbles Visual tracking of cavitation droplets/bubbles System identification for dynamic calibration of diesel engines Robust and high performance airpath control techniques for diesel engines Stabilization of robotic platforms using acceleration control Development of sensor fusion methods for GPS integrated INS systems Image stitching and mosaicing of aerial images Design, development and control of unmanned aerial vehicles (UAV) Adaptive control of quadrotor type helicopters Activity recognition using depth images Visual servoing Robotics manufacturing Unconventional manufacturing</i>

SERHAT YEŞİLYURT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9579</i>
E-Mail	<i>syesilyurt@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/syesilyurt/</i>
Research Area Keywords	<i>Heat Transfer, Fluid Flows, Swimming in Micro Scales, Renewable & Sustainable Energy Systems.</i>
Current Research Activities	<i>Multi-phase transport and deformation of porous media and applications to PEM Fuel Cells, efficient swimming of organisms and artificial structures in micro scales inside channels and conduits, simulations and experiments for design and navigation of artificial structures in conduits, design and aerodynamic optimization of vertical axis wind turbines.</i>

TUĞÇE YÜKSEL (FACULTY MEMBER)

Area	<i>Mechatronics Engineering / Energy Program</i>
Phone	<i>90 (216) 483 9987</i>
E-Mail	<i>tyuksel@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/tyuksel</i>
Research Area Keywords	<i>Vehicle Electrification, Sustainable Transportation Systems, Energy and the Environment.</i>
Current Research Activities	<i>Evaluation of the effects of real world operating conditions on battery life in electrified vehicles Battery design optimization for minimum production cost Thermal management system analysis and selection for prolonging battery life.</i>

OGÜN ADEBALİ (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 568 7043</i>
E-Mail	<i>oadebali@sabanciuniv.edu</i>
Web	<i>http://adebalilab.org</i>
Research Area Keywords	<i>Computational Biology, Comparative Genomics, GPCRs, DNA Damage and Repair, Personalized Medicine, Molecular Evolution.</i>
Current Research Activities	<i>We conduct computational research to address biological problems in genomics. Our primary aim is to understand how genomes work. We benefit from publicly available datasets to deduce and synthesize information using powerful in-silico tools and novel approaches. Our focus is on two main themes; (i) protein bioinformatics and (ii) genomics of DNA damage and repair. Comparative genomics approaches are used to understand the evolutionary history of genes, proteins and genomes. Biological sequence analyses constitute the major part of protein informatics research. Our group is interested in predicting the effects of genomic variants associated with rare diseases which has direct applications in personalized medicine. Secondly, we are interested in understanding how a genome is damaged and repaired utilizing recently generated NGS datasets. We occasionally develop computational tools and build biological databases.</i>

CAVİT AĞCA (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9959</i>
E-Mail	<i>cavit.agca@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ (Not Available at the moment)</i>
Research Area Keywords	<i>Retinal Cell Biology, Gene Therapy, Gene Regulation, Neuroprotection, Regeneration, Adeno-associated Virus (AAV) and Artificial Transcription Activators / Inhibitors (ATA/ATI).</i>
Current Research Activities	<i>Main interest of our lab is to develop advanced therapy medicinal products for retinal diseases. We are performig proof-of-concept studies for neuroprotective gene therapies using AAV vectors and gene regulatory tools like dCAS9, TALE and Zinc-finger proteins in our in vivo and in vitro models. We are also interested in regenerative potential of mammalian muller glia for restorative therapies in retina. We performed a drug screen to identify molecules that potentiates the regenerative capacity of Muller cells in vitro. We plan to test the target molecules in vivo with combination of reporter lines and retinal disease models.</i>

SÜPHAN BAKKAL (INSTRUCTOR)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9714</i>
E-Mail	<i>suphanbakkal@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Bacteria, Bacteriocin, Antimicrobial Resistance.</i>
Current Research Activities	<i>Bacteria, Natural antimicrobials, Antimicrobial Resistance, Science Education.</i>

HÜVEYDA BAŞAĞA (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9511</i>
E-Mail	<i>huveyda@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~huveyda/</i>
Research Area Keywords	<i>Signaling Pathways Leading to Gene Expression in Cancer Cells, Transcriptional Control of Cell Survival and Apoptosis, Molecular Basis of Inflammation, Oxidative Stress and Antioxidants as Signalling Molecules.</i>
Current Research Activities	<p><i>We address the specific role of Bcl-2 proteins in HNE induced apoptosis as they can be considered major therapeutic targets for the treatment of atherosclerosis. Furthermore, protection exerted by phytoestrogens on the apoptotic effect of HNE is also within our research scope. Another line of research is to study the transcriptional regulation exerted by NF-κB and FOXO on the drug related chemoresistance mechanism and identify the role of Bcl-2 protein family members (Bcl-2, Bcl-xL, Bax, Bak, Bad) in the apoptotic response. Specifically the role of Bcl-2 proteins as apoptotic switch in cancer development and therapy is the theme of current research.</i></p> <p><i>A recent line of research is the characterization of the biological effects of drug loaded nanoparticles in several cell lines. In one of our projects, we are trying to increase the antioxidant defense capacity of cells by using a specifically designed nanosystem. For this purpose, a nanosystem has already been tested in the 3T3 fibroblast cell line. More recently, we are seeking to design and implement a nanoparticle-porphyrin based theranostic agent to be used in targeted photodynamic therapy. Our specific aims regarding theranostics are: to develop new tools for one step imaging and therapy for cancer, to understand the role of antioxidant response in nanosystem based photodynamic therapy, and to develop and understand the mechanisms of novel theranostic tools for anti-cancer treatment.</i></p>

YASEMİN CEYLAN ŞEN (POST-DOC)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9000-7023/2086</i>
E-Mail	<i>yceylan@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/yaseminceylan/</i>
Research Area Keywords	<i>Plant Nutrition, Plant Physiology, Abiotic Stress, Biofortification.</i>
Current Research Activities	<i>Performing salt stress tolerance experiments with spelt to find the most tolerant and sensitive genotypes. Investigating how boron, magnesium, phosphorus, zinc and potassium applications from the soil affect the uptake of other essential elements in maize, canola, sugar beet, wheat and soybean plants.</i>

İSMAİL ÇAKMAK (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9524</i>
E-Mail	<i>cakmak@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/cakmak</i>
Research Area Keywords	<i>Plant Nutrition, Stress Physiology, Metal Homeostasis, Food and Nutrition Security.</i>
Current Research Activities	<i>Improving the nutritional quality of food crops; zinc, iodine and selenium biofortification of cereals; mitigation of stress in crop plants by mineral nutrition; nutrient uptake and transport in plants; and oxidative stress in plants.</i>

SELİM ÇETİNER (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9545</i>
E-Mail	<i>cetiner@sabanciuniv.edu</i>
Web	<i>http://bio.sabanciuniv.edu/en/people/faculty</i>
Research Area Keywords	<i>Plant Genetic Engineering, Plant Tissue Culture, Genetically Modified Organisms, Detection of Genetically Modified Organisms, Sustainable Agriculture.</i>
Current Research Activities	<i>Plant cell and tissue culture, detection of GMOs, collection and molecular characterization of ancient wine grapes, identification and directed evolution of algae for hydrocarbon production.</i>

BATU ERMAN (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9530</i>
E-Mail	<i>batu@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~batu</i>
Research Area Keywords	<i>Molecular and Cellular Biology, Immunology, Signal. Transduction, Lymphocyte Development, p53 protein, Cancer Research, Genome Editing, Gene Therapy.</i>
Current Research Activities	<i>We use molecular biology techniques to conduct basic research on the molecular mechanisms of signal transduction and gene activation in the mammalian immune system. We investigate how genes get turned on and off in T lymphocytes and we study molecular interactions that are critical for cancer research such as the association of p53-MDM2/4 and the structure and function of BTB domain transcription factors. Our research interests include high throughput screening of small molecule libraries to identify inhibitors that can be developed as novel drugs. We routinely use the CRISPR/Cas9 genome editing technique, X-ray crystallography to identify protein structure and advanced microscopy techniques such as confocal and live cell imaging to address these questions.</i>

EMRAH EROĞLU (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9597</i>
E-Mail	<i>emrah.eroglu@sabanciuniv.edu</i>
Web	<i>http://eroglulab.com</i>
Research Area Keywords	<i>Design and Development of Genetically Encoded Biosensors, Chemogenetic Approaches, High Resolution Live-cell Imaging, Fluorescence Microscopy, Nitric Oxide Signaling, Reactive Oxygen Species, Calcium Signaling, Energy Metabolism, Cellular Biochemistry.</i>
Current Research Activities	<i>We design, develop, test, characterize, apply and refine novel genetically encoded biosensors for high-resolution live-imaging. Our special focus is on the relationship and biochemistry of nitric oxide and hydrogen peroxide in single vascular cells. For this purpose we have developed multispectral imaging techniques to visualize more than one parameter. In addition we can simultaneously manipulate redox levels in subcellular locals utilizing chemogenetic tools. This high-content imaging approaches allows us to dissect the complex biochemistry of reactive oxygen and reactive nitrogen species in vascular cells with high spatial and temporal resolution.</i>

**DEVİRİM GÖZÜAÇIK (VICE DIRECTOR FOR CENTER OF
EXCELLENCE FOR FUNCTIONAL SURFACES AND
INTERFACES, FACULTY MEMBER)**

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9617</i>
E-Mail	<i>dgozuacik@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/dgozuacik and http://efsun.sabanciuniv.edu</i>
Research Area Keywords	<i>Molecular Basis of Human Diseases, Cancer Biology, Drug Research, Nano Diagnostics, Nano Medicine, Cellular Stress, Autophagy.</i>
Current Research Activities	<i>The Gözüaçık Lab Focuses on "cellular stress and death response mechanisms". In particular, regulation mechanisms of stress-related autophagy responses, novel autophagy protein and pathway discovery, the role of autophagy abnormalities in human diseases (especially neurodegenerative diseases and cancer), novel cancer diagnosis methods and innovative drug discovery.</i>

CHRISTOPHER MAYACK (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 568 70 38</i>
E-Mail	<i>cmayack@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/cmayack/website/</i>
Research Area Keywords	<i>Improving Honey Bee Health; Parasitology; Animal Behavior; Animal Physiology; Evolution of Social Behavior; Maintenance of Energetic Homeostasis; Systems Biology.</i>
Current Research Activities	<i>We are interested in two different main research goals. The first is using a systems biology approach to improve honey bee health. This involves integrating different 'omic' fields, including exposomics and metabolomics, in order to understand how disease, pesticide exposure, and poor nutrition are interacting to produce a synergistic decline in bee health. We aim to understand mechanistically how bees are responding to these stressors and to identify robust chemical biomarkers so that we can develop a passive volatile chemical sampling technology for beekeepers to comprehensively monitor bee health on a regular basis. Secondly, using different bee species and a comparative physiology approach, we aim to understand how highly conserved metabolic hormonal pathways have been altered to facilitate the transition from solitary to social behavior. Transcriptomics and qPCR gene expression of the highly conserved hormone pathways, along with direct measurement of neurotransmitters using HPLC, are tools that will be employed with this research aim.</i>

LEVENT ÖZTÜRK (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9613</i>
E-Mail	<i>lozturk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/lozturk/</i>
Research Area Keywords	<i>Plant Nutrition, Plant Physiology, Agronomy, Food Security, Agronomic Biofortification, Climate Change.</i>
Current Research Activities	<i>Selection and characterization of crops with high nutrient use efficiency, utilization of municipal waste compost as organic fertilizer, effects of herbicide drift on micronutrient nutrition of staple crops, physiological characterization of plant responses to abiotic stress, food security and biofortification of cereal grains using agronomic approaches, effects of global climate change on crop mineral nutrition and physiology.</i>

ZEHRA SAYERS (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9509</i>
E-Mail	<i>zehra@sabanciuniv.edu</i>
Web	<i>https://fens.sabanciuniv.edu/tr/fakulte-uyeleri/detail/35</i>
Research Area Keywords	<i>Molecular Biophysics, Protein chemistry, Structural Biology, Synchrotron Radiation, Small Angle X-ray Scattering, Metal-binding proteins, G-proteins.</i>
Current Research Activities	<i>Our research focuses on investigating structure-function relationships in proteins using biophysical methods. Systems we study are plant heterotrimeric G-proteins and metal-binding proteins. Proteins are cloned, expressed in appropriate hosts, purified and characterized using basic tools. Structure and function studies are conducted using biochemical, enzymatic and spectroscopic methods including UV-Vis absorption spectroscopy and circular dichroism in our laboratories. We also use structural analysis tools including X-ray absorption, X-ray scattering and diffraction at international synchrotron radiation laboratories including EMBL and SESAME. Prof. Sayers is also active in the field of Science Diplomacy in international organizations.</i>

DENİZ SEZER (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering / Physics</i>
Phone	<i>90 (216) 483 9881</i>
E-Mail	<i>dsezer@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/dsezer/</i>
Research Area Keywords	<i>Computational Molecular Biophysics, Theoretical Physical Chemistry.</i>
Current Research Activities	<i>Developing strategies for the atomically-detailed characterization of functional conformational transitions in biomolecules. Developing methods for using molecular dynamics simulations of biomolecules to interpret data from magnetic resonance spectroscopy experiments (in particular electron spin resonance).</i>

ÖZNR TAŞTAN (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering / Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9883</i>
E-Mail	<i>otastan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Machine Learning, Computational Biology, Bioinformatics, Complex Diseases, Genomic Data Privacy.</i>
Current Research Activities	<i>Significant progress has been made in the ability to characterize DNA, RNA, and protein sequences, and measure expression quantities. Towards fully realizing the scientific and clinical potential of this large scale data, our main research objective is to develop biologically-motivated, statistically-grounded, and computationally-efficient tools that provide insights for diseases and cellular mechanisms. Our lab develop and apply machine-learning techniques that utilize this large and heterogeneous biological data toward addressing a diverse range of problems. Additionally in our recent work, we focus on genomic data privacy.</i>

**FAZİLET VARDAR SUKAN (SUNUM DIRECTOR,
FACULTY MEMBER)**

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9884</i>
E-Mail	<i>faziletvardar@sabanciuniv.edu</i>
Web	<i>http://www.sabanciuniv.edu/en/sudirectorystaffdetay/3098</i>
Research Area Keywords	<i>Mass and Momentum Transfer and Scale – Up in Bioreactors, Foaming and its Control in Bioprocesses, Re-Utilisation of Agro-Industrial Wastes and Surpluses for the Production of High Added Value Materials Through Bio-Industries, Micro-Algal Production, and R&D&I Management and Support.</i>
Current Research Activities	<p><i>Production, purification and characterization of keratinase; production and recovery of bioethanol, biosurfactants, and bioactive secondary metabolites; biohydrogen production from model microalgae; integrated bio proceses.</i></p> <p><i>Dr. Vardar-Sukan is the Director of SUNUM Nanotechnology Research and Application at Sabancı University. She also currently holds the positions of vice president of the Administrative Board of Ege Technopark, vice president of the USIMP Executive Board and Coordinator of the EBIC-Ege (Enterprise Europe Network). She is also a member of the EPO Academy Advisory Board (European Patent Office) and represents Turkey on the ATP Board (Alliance of Technology Transfer Professionals), AUTM International Committee (Association of University Technology Managers), ASTP-NAAC (Association of Science and Technology Professionals National Associations Advisory Committee) and EuKTS Board (European Knowledge Transfer Society).</i></p> <p><i>She is a Registered Technology Transfer Professional (RTTP) and the holder of the 1989 Turkish Scientific and Technological Council Incentive award in Bioengineering.</i></p>

ÖZLEM KUTLU (RESEARCHER)

Area	<i>Molecular Biology and Genetics</i>
Phone	<i>90 (216) 483 9000- 2413</i>
E-Mail	<i>ozlemkutlu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozlemoral/</i>
Research Area Keywords	<i>Molecular Cell Biology, Human Genetic Disease, Cell Death Mechanisms, Nanomedicine.</i>
Current Research Activities	<i>Molecular mechanism of rare human genetic diseases, drug delivery research with biodegradable nanoparticles.</i>

İNANÇ ADAGİDELİ (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9605</i>
E-Mail	<i>adagideli@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/adagideli/</i>
Research Area Keywords	<i>Theoretical Condensed Matter Physics: Topological States of Matter, Theoretical Nanophysics, Superconductivity, Spintronics and Spin Hall Effect. Quantum.Transport Theory. Graphene Physics. Asymptotic Methods in Physics and Quantum Chaos.</i>
Current Research Activities	<i>Graphene spintronics. Spin and valley-spin dependent transport in graphene nanostructures. Spin-orbitronics and spin Hall effect. Quantum transport in topological insulators. Supersymmetric methods in quasiparticle spectra of topological insulators and d- and p- wave superconductors. Universalities in complex quantum systems.</i>

ONUR AKBAL (FACULTY MEMBER)

Area	<i>Astrophysics</i>
Phone	<i>90 (216) 483 9616</i>
E-Mail	<i>oakbal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Pulsars, Neutron Stars.</i>
Current Research Activities	<i>The interior structure of neutron stars (TÜBİTAK 1001 project).</i>

MEHMET ALİ ALPAR (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9510</i>
E-Mail	<i>alpar@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~alpar/</i>
Research Area Keywords	<i>High-energy Astrophysics: Neutron Stars and Environments, Superfluidity, Rotational Dynamics.</i>
Current Research Activities	<i>Fast oscillations in disks and neutron star environments. QPO modeling. Glitch modelling and statistics for all pulsars. Magnetars and fallback disks- neutron star evolution in interaction with fallback disks. Dynamics of neutron stars with linear and nonlinear internal torques and arbitrary time dependent external torques; applications to high mass X-ray binaries and magnetars.</i>

DURMUŞ ALİ DEMİR (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 568 7042</i>
E-Mail	<i>durmus.demir@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Electroweak Stability, Dark Matter, Quantum Tunneling.</i>
Current Research Activities	<i>I currently am working on electron tunneling time in Ar and Kr (with my M.Sc. student S. Paçal), geometrical dark matter (with my Ph. D. student B. Pulice), stability-driven new physics at particle colliders (with my colleagues K. Cankocak (ITU), C. Karahan (ITU) and S. Şen (Hacettepe)), and group velocity in non-Hermitian systems (with my colleagues C. Yüce (ETU) and H. Ramezani (UTRGV)). Memristive mechanics is among my future research interests.</i>

ÜNAL ERTAN (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9560</i>
E-Mail	<i>unal@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/unal</i>
Research Area Keywords	<i>High Energy Astrophysics: Neutron Stars, Pulsars, Accretion Disks, X-ray Binaries, Radiative Processes.</i>
Current Research Activities	<i>Long-term radiative and rotational evolution of young neutron star populations: Anomalous X-ray pulsars, soft gamma repeaters, dim isolated neutron stars, rotating radio transients and radio pulsars. Disk-magnetic field interaction, propeller and accretion phases of accreting neutron stars.</i>

ZAFER GEDİK (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9610</i>
E-Mail	<i>gedik@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~gedik/</i>
Research Area Keywords	<i>Theoretical Condensed Matter Physics: Superconductivity, Mesoscopic Physics, Quantum Information Theory.</i>
Current Research Activities	<i>Quantum cloning, quantum algorithms, quantum walk.</i>

ERSİN GÖĞÜŞ (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9590</i>
E-Mail	<i>ersing@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/ersing/</i>
Research Area Keywords	<i>High-Energy Astrophysics, Ultra Magnetized Neutron Stars, Gamma Ray Bursts, Techniques in Astrophysical Data Analysis.</i>
Current Research Activities	<i>Deep search for transient X-ray sources in the galactic plane, magnetars in supernova remnants, temporal and spectral investigations using X-ray and gamma-ray data, ultra-luminous X-ray sources in nearby galaxies, machine learning applications with astrophysical data.</i>

EMRAH KALEMCI (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9614</i>
E-Mail	<i>ekalemci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/ekalemci</i>
Research Area Keywords	<i>High Energy Astrophysics, Black Holes, Astrophysical Instrumentation, Semiconductor Detectors, CubeSats.</i>
Current Research Activities	<i>My current research activities are concentrated on two areas, multiwavelength observations of galactic black hole systems and astrophysical instrumentation based on room temperature semiconductor detectors. I am interested in the conditions of the formation and destruction of jets and state transitions. I also study dust scattering halos around galactic black holes. I use CdZnTe based strip and pixellated crystals to design and produce detector systems for small satellites such as CubeSats. I am also interested in using these detectors as part of medical devices.</i>

YUKI KANEKO (INSTRUCTOR)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9709</i>
E-Mail	<i>yuki@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yuki</i>
Research Area Keywords	<i>High-Energy Astrophysics, Gamma-Ray Burst (GRB) Spectroscopy, Soft Gamma Repeaters (SGRs), Science Education, Active Learning, Collaborative Learning, Teacher Training.</i>
Current Research Activities	<i>SGR burst search using the data of space-based high-energy telescopes, investigating spectral and temporal characteristics of SGR bursts, active-learning strategies to engage students in university-level science classes, development of effective teaching assistant training programs for active-learning classrooms.</i>

İSMET İNÖNÜ KAYA (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9591</i>
E-Mail	<i>iikaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~iikaya/</i>
Research Area Keywords	<i>Quantum Transport, Nanoelectronics, Graphene, 2D Materials, Quantum Hall Effects, OLED.</i>
Current Research Activities	<i>Growth and electronic properties of graphene and 2D materials, development of OLED devices and displays, Quantum Hall effects, Quantum spin Hall effect, Nanoelectromechanical systems.</i>

BARIŞ PEKERTEN (POSTDOCTORAL RESEARCHER FELLOW)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9000-2126</i>
E-Mail	<i>bpekerten@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Theoretical Condensed Matter Physics, Mesoscopic Physics, Quantum Transport, Superconductivity, Topological States of Matter, Quantum Thermodynamics, Spintronics, Spin Hall Effect, Universality and Asymptotic Methods in Physics.</i>
Current Research Activities	<i>Spin-orbitronics and spin Hall effect. Quantum transport and devices involving topological materials. Universalities in complex quantum systems. Interaction of complexity and disorder with topological materials. Energy storage and extraction in topological quantum systems. Theoretical methods in calculation of properties of topological materials.</i>

CİHAN SAÇLIOĞLU (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9529</i>
E-Mail	<i>saclioglu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/saclioglu/</i>
Research Area Keywords	<i>Theoretical Particle Physics and Quantum Field Theory, General Theory of Relativity and Mathematical Physics.</i>
Current Research Activities	<i>Classification of differentiable 4-manifolds, solutions of Euclidean gravity, hyperbolic Lie algebras related to string theory.</i>

DENİZ SEZER (FACULTY MEMBER)

Area	<i>Physics / Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9881</i>
E-Mail	<i>dsezer@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/dsezer/</i>
Research Area Keywords	<i>Computational Molecular Biophysics, Theoretical Physical Chemistry.</i>
Current Research Activities	<i>Developing strategies for the atomically-detailed characterization of functional conformational transitions in biomolecules. Developing methods for using molecular dynamics simulations of biomolecules to interpret data from magnetic resonance spectroscopy experiments (in particular electron spin resonance).</i>

ALTUĞ TANALTAY (FACULTY MEMBER)

Area	<i>Information Technologies</i>
Phone	<i>90 (216) 483 9561</i>
E-Mail	<i>atanaltay@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/atanaltay</i>
Research Area Keywords	<i>Machine Learning, Data Mining, Text Mining, Opinion Mining.</i>
Current Research Activities	<i>Extracting behavioral patterns from online datasources, applying data mining techniques to business problems to gain insights for pricing, product lifecycle and demand forecasting.</i>





SBS

SABANCI BUSINESS SCHOOL

EVRI M AKDOĞU (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9637</i>
E-Mail	<i>evrimakdogu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/evrimakdogu/</i>
Research Area Keywords	<i>Corporate Finance, Theory and Empirical, Mergers and Acquisitions, Corporate Investments, Corporate Governance.</i>
Current Research Activities	<i>Currently working on the effects of Corporate Governance, in particular on Bond Covenants, equity prices, the intensity of Merger and Acquisition activities as well as their impact on the performance of the firms participating in such activities.</i>

AYSUN ALP (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9723</i>
E-Mail	<i>aysunalp@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aysunalp/</i>
Research Area Keywords	<i>Empirical Corporate Finance, Credit Ratings, Capital Structure, The 2008 Financial Crisis.</i>
Current Research Activities	<i>Dr. Alp's recent research investigates credit rating agency practices and their influence on defaults and firms' financial policies such as capital structure and payout policy. Other recent working papers analyze contagion effects of credit ratings and the relationship between investor sentiment and the 2008 Financial Crisis.</i>

YİĞİT ATILGAN (DIRECTOR OF CENTER OF EXCELLENCE IN FINANCE, FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9663</i>
E-Mail	<i>yatilgan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/yatilgan/</i>
Research Area Keywords	<i>Investments, Derivatives Markets, International Finance.</i>
Current Research Activities	<i>Cross-sectional determinants of equity returns. Downside risk in international markets. Risk-return characteristics of alternative investments. Asset pricing anomalies in Borsa Istanbul.</i>

TOLGA DEMİR (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9661</i>
E-Mail	<i>tolgademir@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/tolgademir/</i>
Research Area Keywords	<i>Corporate Finance, Entrepreneurial Finance, Private Equity, Mergers & Acquisitions, Innovation and Strategy.</i>
Current Research Activities	<i>Currently working on the role management plays as a strategic intangible asset in cross-border acquisitions. I am also working on innovation, examining how transition from public to private ownership is related to innovation performance. Another ongoing project related to innovation is about the real (strategic) value of patents for firms. I am also working on a project investigating how the organizational structure of buyout targets is reshaped post acquisition.</i>

K. ÖZGÜR DEMİRTAŞ (FOUNDING CHAIRMAN OF CENTER OF EXCELLENCE IN FINANCE, FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9985</i>
E-Mail	<i>ozgurdemirtas@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozgurdemirtas/</i>
Research Area Keywords	<i>Investments, Asset Pricing, Portfolio Management, Risk Management, Financial Econometric, Derivatives.</i>
Current Research Activities	<i>I am currently working on a wide range of topics such as return predictability in a cross-sectional and time series framework of stock returns. I focus on alpha-generating strategies. I also work on portfolio allocation using newly developed Almost Mean Variance and Almost Stochastic Dominance rules. The relationship between risk and return in emerging markets is also among my interests. The performance of the emerging markets during the past 10 years has also motivated me to focus on the macroeconomic factors affecting valuations.</i>

A.DORUK GÜNAYDIN (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9655</i>
E-Mail	<i>dorukgunaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/dorukgunaydin</i>
Research Area Keywords	<i>Empirical Asset Pricing, Derivatives, International Finance.</i>
Current Research Activities	<i>Currently working on stock return predictability in a cross-sectional framework. Risk and return relationship in international markets and asset pricing anomalies in BIST are among my interests.</i>

JOHN GOODWIN (FACULTY MEMBER)

Area	<i>Accounting</i>
Phone	<i>90 (216) 483 9675</i>
E-Mail	<i>goodwin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/goodwin/</i>
Research Area Keywords	<i>Auditing, Corporate Governance, Financial Accounting, Debt Monitoring.</i>
Current Research Activities	<i>With academics from Turkey and abroad, I am presently working on audit firm mergers and audit outcomes, auditor and lender reactions to political connections, determinants of financial distress outcomes and the relation between financial reporting attributes and country characteristics.</i>

ULF NILSSON (FACULTY MEMBER)

Area	<i>Accounting</i>
Phone	<i>90 (216) 483 9645</i>
E-Mail	<i>nilsson@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ulfnilsson/</i>
Research Area Keywords	<i>Management Accounting, Cost Management, Management Control Systems, Strategic Alliances.</i>
Current Research Activities	<i>I am currently working on two projects. The first deals with sharing of cost information and trust building in strategic alliances. Data has been collected from a large retail chain and a few key suppliers. The second deals with how large multinational companies control and manage their costs in complex strategic alliances with their suppliers. Data is being / has been collected in cooperation with some of Sweden's largest companies.</i>

ŞERİF AZİZ ŞİMŞİR (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9658</i>
E-Mail	<i>simsir@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/simsir/</i>
Research Area Keywords	<i>Mergers & Acquisitions, Valuation, Corporate Governance, Insider Trading, Market Efficiency.</i>
Current Research Activities	<i>I currently investigate the effect of labor unionization on the takeover decisions of firms. In another M&A related study, I examine the association between the cultural diversity of legal advisor teams and their effect on their client's merger outcomes. I am also involved in a project on insider trading and market efficiency, where we examine the stock market trading dynamics before and after major corporate announcements made through the Public Disclosure Platform (KAP) of MKK.</i>

ATA CAN BERTAY (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9723</i>
E-Mail	<i>ata.bertay@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members-research-areas</i>
Research Area Keywords	<i>Cross-Norder Banking, Systemic Risk, Bank Regulation and Supervision, Economic Growth.</i>
Current Research Activities	<i>Currently working on various projects on the dynamics of bank capitalization, wage determination in financial firms, bank history and risk-taking, and gender inequality and economic growth.</i>

BÜNYAMİN ÖNAL (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9660</i>
E-Mail	<i>bunyamin.onal@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members/detail/3519</i>
Research Area Keywords	<i>Corporate Governance, Board of Directors, Executive Compensation, Mergers and Acquisitions, Innovation, Networks.</i>
Current Research Activities	<i>My research interests lie broadly in empirical corporate finance. My current projects answer, inter alia, the following research questions: 1) How do board members with political or government roles affect corporate investments? 2) Does uncertainty about government policies affect the nature of mergers and acquisitions pursued by managers? 3) How does the political orientation of country executives on the left-right spectrum affect the compensation contracts of corporate executives? 4) How does being well-networked affect corporate executives' compensation contracts and value creation? 5) Does being better-networked explain the increasingly higher wages in financial sectors? 6) What specific CEO and board member qualities lead to successful innovation?</i>

MELSA ARARAT (FOUNDING DIRECTOR FOR CORPORATE GOVERNANCE FORUM OF TURKEY, PRINCIPLE RESEARCHER, FACULTY MEMBER)

Area	<i>Management</i>
Phone	<i>90 (216) 483 9712</i>
E-Mail	<i>melsaararat@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/melsaararat/</i>
Research Area Keywords	<i>Corporate Governance, Boards. Business Groups, Sustainable Investing.</i>
Current Research Activities	<i>My on-going research topics are the impact of Board Diversity on financial and social performance. I investigate value differences between female and male directors (with R. Adams and O. Ozbas), and the role of the political environment on how gender diversity affects firm performance (with N. Sheeta). I am currently co-editing a special issue on Corporate Governance in Emerging Markets for Emerging Markets Review and editing a book on the role of business-university partnership in achieving social goals using the Business Against Domestic Violence campaign as a case study. I am also working on a case study of Yıldız Holding to be used in graduate teaching on leadership and growth strategies. I continue to work on the corporate governance of business groups (with B. Yurtoglu).</i>

OĞUZ BABÜROĞLU (FACULTY MEMBER)

Area	Management
Phone	90 (216) 483 9659
E-Mail	baburoglu@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/baburoglu/
Research Area Keywords	<i>Participative Methodologies, Action Research, Emergent Strategy, Stalemate, Self Managing Organizations.</i>
Current Research Activities	<i>My area of inquiry can be described as strategy and organization development at all levels of social systems including organization, society, industry, network and regional foci and different type of units such as corporations, non-governmental organizations, universities, municipalities, and government agencies. My research paradigm rests on engaging these units in change processes through the triangulation of participatory methodologies in order to understand how strategies emerge, how to institutionalize self-managing enterprises and how stalemate is sustained in social systems. My research strategy is action research in which I try to combine different knowledge basis such as novel and ready grounds in order to expand and enrich 'common ground' formation. This research strategy enables the examination, deciphering and development of 'practice'.</i>

BERNA BEYHAN (VICE DEAN, FACULTY MEMBER)

Area	<i>Management</i>
Phone	<i>90 (216) 568 7060</i>
E-Mail	<i>bernabeyhan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bernabeyhan/</i>
Research Area Keywords	<i>Technology Entrepreneurship, University Entrepreneurship, Business Incubation and Start-Up Acceleration, Female Technology Entrepreneurship, Innovation and Entrepreneurship in Emerging Technologies.</i>
Current Research Activities	<i>My research interests are essentially divided into three areas: technology entrepreneurship and business incubation, university entrepreneurship, and innovation and entrepreneurship in emerging nanotechnologies. I am currently the principle investigator of a project on business incubation and acceleration programs and the performance of firms in these programs. The aim of this project is to provide insights into how screening and business development processes work in incubation and acceleration programs, how they differ from each other and how these varieties influence the performance of firms supported by these programs. I work on how entrepreneurs and business incubation professionals and investors interact, and to which extent entrepreneurial attitudes and competences influence the funding decisions. I am also working on university entrepreneurship which covers all the entrepreneurial activities in which academics, students and new graduates of universities engage. The main focus of the research is how the idiosyncratic resources and capabilities of universities influence the entrepreneurial activities of their members, especially their students. Innovation and entrepreneurship in nanotechnologies is also among my research interests. Currently I am working on Swedish nanotechnology innovation systems in collaboration with a research group in Sweden. Our focus covers the link between publications and patents, patent and publication networks of nanoscientists and the link between patents and technology commercialization.</i>

REMZİ GÖZÜBÜYÜK (FACULTY MEMBER)

Area	Management
Phone	90 (216) 483 9673
E-Mail	remzi@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/remzi/
Research Area Keywords	<i>Strategy; Social Network Analysis; Corporate Boards; Institutions and International Business.</i>
Current Research Activities	<i>I am currently involved in four projects. In the first, together with my colleagues from the University of Minnesota we look at the role of networks of innovation in the biotechnology industry. In the second project, together with my colleagues from IE Business School, we look at how the networks of religious scholars in Islamic Finance institutions function as governance mechanisms and affect the financial performance of the relative firms and how country institutions affect these relationships. In the third project, we look at the role of social networks in the determination of aspiration levels for managers and companies and the role of institutional factors in this relationship. In the final project, we look at the role of country level institutions on competition among multinational companies from developed and emerging markets.</i>

TIMOTHY S. KIESSLING (FACULTY MEMBER)

Area	<i>Management & Strategy</i>
Phone	<i>90 (216) 483 71 84</i>
E-Mail	<i>timothy.kiessling@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members/detail/3530</i>
Research Area Keywords	<i>Management and Marketing.</i>
Current Research Activities	

AHMET FAZIL ÖNCÜ (FACULTY MEMBER)

Area	<i>Management / European Studies</i>
Phone	<i>90 (216) 483 9651</i>
E-Mail	<i>aoncu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aoncu/</i>
Research Area Keywords	<i>Historical Sociology, Political Economy, Social Theory.</i>
Current Research Activities	<i>I am a social scientist with formal training in sociology and economics. I am also a good reader of political philosophy, ethics and history. My scholarship is grounded in theories and methods found in the fields of social theory, historical sociology and political economy with application to topics and issues pertaining to Turkish social formation. My research primarily falls into three themes and related broad research questions: 1) Grounding Turkish modernity and capitalism in social theory; 2) Political economy of class dynamics and their implications for social and cultural change; and 3) Social, political and moral foundations of democracy and citizenship.</i>

NÜFER YASİN ATEŞ (FACULTY MEMBER)

Area	<i>Management / Strategy</i>
Phone	<i>90 (216) 483 9678</i>
E-Mail	<i>nufer.ates@sabanciuniv.edu</i>
Web	<i>nufer.ates@sabanciuniv.edu nufer.ates@sabanciuniv.edu</i>
Research Area Keywords	<i>Strategy Formulation and Implementation, Corporate Entrepreneurship, Middle Managers, Managerial Cognition, Innovation and Strategic Renewal, Behavioral Strategy, Strategic Leadership, Research Methods.</i>
Current Research Activities	<i>My current work investigates the contribution of middle managers and mid-level professionals to the strategic renewal of organizations. I also study the use of heuristics in strategic leadership teams. My research develops strategy visualization and diagnostics tools to help organizations navigate through strategic change.</i>

NAKIYE AVDAN BOYACIGİLLER (EMERITUS FACULTY MEMBER)	
Area	<i>Management</i>
Phone	<i>90 (216) 483 9660</i>
E-Mail	<i>nakiye@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/nakiye/</i>
Research Area Keywords	<i>Cross-Cultural Management; International Human Resource Management, Cross-national Organizational Behavior, Global Mindset.</i>
Current Research Activities	<i>I am involved in two international research teams. In the first, my colleagues and I seek to understand how organizational culture and human resource management practices influence competitiveness in multinational organizations. In a second newer project, my colleagues and I challenge current international business research from a perspective of scientific mindfulness, arguing for a holistic, cross-disciplinary, ecological and contextual approach.</i>

MAHMUT BAYAZIT (FACULTY MEMBER)	
Area	<i>Management</i>
Phone	<i>90 (216) 483 9669</i>
E-Mail	<i>mbayazit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/mbayazit/</i>
Research Area Keywords	<i>Organizational Behavior, Leadership, Strategic Human Resources Management.</i>
Current Research Activities	<i>I am currently working on a project in which we are examining the role of workplace gender composition on the performance consequences of competitive vs. cooperative pay structures (with Dennis Ma and Danielle van Jaarsveld). We use an employee-employer linked dataset of nationally representative Canadian for-profit organizations. In relevant research we ask if pay dispersion as a pay structure characteristic explains the performance of NBA basketball teams when pay dispersion is congruent with the status hierarchy of those teams. In other research (with Özgecan Koçak, Çağla Bozer & Nazlı Şenol) we build on studies of organizational identification and typecasting to propose that organizational identity categories serve as a matching device in labor markets. Using data from the Turkish banking sector we find five identity categories and show that mobility between firms happens largely within those categories. Finally, my research involves gender issues in leadership perceptions. In one study we investigated how exposure to senior female leader figures (female municipality mayors) impacts the trajectory of change in municipality officers' implicit prejudice towards female leadership.</i>

BEHLÜL ÜSDİKEN (FACULTY MEMBER)

Area	<i>Management</i>
Phone	<i>90 (216) 483 9650</i>
E-Mail	<i>behlul@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/behlul/</i>
Research Area Keywords	<i>Organization Theory, History of Management Thought, History of Management Education.</i>
Current Research Activities	<i>Current research involves Turkish early management literature, Turkish managerial elites, the historical evolution of the higher education field in Turkey, and history in organization studies.</i>

S. ARZU WASTI (FACULTY MEMBER)

Area	<i>Management</i>
Phone	<i>90 (216) 483 9662</i>
E-Mail	<i>awasti@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/awasti/</i>
Research Area Keywords	<i>Cross-Cultural Organizational Behavior.</i>
Current Research Activities	<i>My current research explores trust formation in organizations. In particular, I am investigating the antecedents of trust in supervisor, coworkers, subordinates and organizations across cultures. I am also interested in the workplace-related implications (with respect to incivility, morality, performance) of honor cultures, such as Turkey.</i>

EZGİ AKPINAR UYSAL (FACULTY MEMBER)

Area	<i>Marketing</i>
Phone	<i>90 (216) 483 97 22</i>
E-Mail	<i>ezgiakpinar@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members-research-areas</i>
Research Area Keywords	<i>Viral Marketing, Social Media Marketing, Consumer Behavior.</i>
Current Research Activities	<i>Research on the following manuscripts: -the effects of emotions on branded content, the effects of social exclusion on sharing, the effects of consumer feedback on brand attitude, the effects of self-compassion on social media discrepancies.</i>

BARIŞ ERMAN DEPECİK (FACULTY MEMBER)

Area	<i>Marketing</i>
Phone	<i>90 (216) 483 96 49</i>
E-Mail	<i>baris.depecik@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members-research-areas</i>
Research Area Keywords	<i>Marketing Analytics, Quantitative Marketing Models, Brand Management, Retailing, Sports Marketing.</i>
Current Research Activities	<i>1) Explores knowledge management in emerging markets, in this case Croatia, and the resultant impact on performance based upon strategic configuration. 2) Explores the top management team prior to a corporate asset purchase. Our results suggest a hubristic tendency by the top management team as they will manipulate accruals to illustrate better firm performance prior to the acquisition. 3) We tested signaling theory through key person signaling and stock market volatility measured through GARCH analysis. 4) CSR has now come to the forefront of strategy researchers and our empirical study explores which mechanisms must be in place for a successful CSR strategy, both internal and external components. 5) Advisors to SMEs and family SMEs is nascent research and we explore both the “how” advisors occur, and how this affects SME performance.</i>

KIVILCIM DÖĞERLİOĞLU DEMİR (FACULTY MEMBER)

Area	Marketing
Phone	90 (216) 483 9677
E-Mail	kivilcimdd@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/kivilcimdd/
Research Area Keywords	Marketing, Consumer Behavior, Brands and Brand Meanings, Cross-cultural Consumer Research, Sustainable Consumption Behaviors, Psychometrics, Behavioral Pricing.
Current Research Activities	<i>Dr. Dogerlioglu-Demir has published several papers in behavioral pricing and brand meanings. Her recent research investigates the impact of numerical information in marketing communications on consumer behavior. She is also interested in sustainable consumption behaviors, including consumer involvement in the sharing economy.</i>

CENK KOCAŞ (FACULTY MEMBER)

Area	Marketing
Phone	90 (216) 483 9674
E-Mail	kocas@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/kocas/
Research Area Keywords	Game Theoretical Models of Price Promotions, Strategic Pricing, Market Response Modelling, Econometric Modelling, Evolution of Online Markets, Network Economics, Industrial Organization, Stochastic Service Systems.
Current Research Activities	<i>My research areas are game theoretical models of price promotions, the evolution of online markets, network economics, industrial organization, and stochastic service systems. My current research stream examines pricing strategies for homogeneous goods sold online and price compared with both price comparison engines and segments of customers. Traffic generation, single product profit maximization and profit maximization for baskets of goods sold are the underlying objectives of the firms under focus. The theoretical findings from equilibrium analysis are empirically validated using data on homogeneous goods. The data is collected using web crawlers that query pricing information from the online retailers of the homogeneous goods.</i>

ANDY HO MAN NG (FACULTY MEMBER)

Area	<i>Marketing</i>
Phone	<i>90 (216) 483 9704</i>
E-Mail	<i>andyng@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/andyng/</i>
Research Area Keywords	<i>Consumer Behavior, Attitudes and Attitude Change, Cultural or Ethnic Differences.</i>
Current Research Activities	<i>My main research focus is on cultural differences in basic psychological processes, and how these cultural variations influence consumer decision-making and consumption behavior, informing the basics of successful cross-cultural marketing strategies. In one line of research, my collaborators and I investigate cultural differences in attitudinal processes and their implications in marketing communications. In another line of research, my collaborators and I examine socioecological influences on consumer behavior. For example, in one project, we have gathered some evidence to suggest that people who change their residence frequently are more inclined to purchase unique consumer products, compared with those who change their residence less frequently. I have also started a new line of work, looking at the negative impact of checkout charity on customer retention.</i>

RAHA AKHAVAN TABATABAEI (FACULTY MEMBER)

Area	<i>Operations Management</i>
Phone	<i>90 (216) 483 9640</i>
E-Mail	<i>akhavan@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members/detail/2705</i>
Research Area Keywords	<i>Methodology: Stochastic Operations Research, Stochastic Modeling and Simulation Application areas: Disaster Operations Management, Healthcare Systems, Medical Decision Making, Production and Maintenance Systems, Quality and Reliability Engineering, Revenue Management, Transportation and Logistics.</i>
Current Research Activites	<i>An EM Algorithm to Fit Discrete Phase-type Distributions with Applications in Operating Room Time Modeling, Mohsen Varmazyar, Raha Akhavan-Tabatabaei, Nasser Salmasi*, and Mohammad Modarres, working paper. Acyclic Discrete Phase-Type Distribution Types and Properties: An Overview, Mohsen Varmazyar, Raha Akhavan-Tabatabaei, Nasser Salmasi*, and Mohammad Modarres, working paper. A Pricing Model to Optimize the Promotion Periods in Airlines, Otero, D., Lopez, C., Escallon, M., and Akhavan, R., working paper. Electric Vehicle Routing Problem with Queues at Charging Stations, work in process, in collaboration with the Industrial Engineering Department at Sabanci University, Turkey. Applications of Markov Decision Processes in Inventory Prepositioning for Disaster Response, work in process, in collaboration with the Industrial Engineering Department at Tec de Monterrey, Mexico. Data Analysis Methodology for Publicly Available Air Quality Data, work in progress, in collaboration with the Industrial Engineering Department at Universidad de los Andes, Colombia. Cervical Cancer Screening and Treatment Policies from the Public Health Perspective, work in progress, in collaboration with the Industrial Engineering Department at Universidad de los Andes.</i>

MELEK AKIN ATEŞ (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 96 84</i>
E-Mail	<i>melek.ates@sabanciuniv.edu</i>
Web	<i>https://som.sabanciuniv.edu/en/faculty-members/detail/3531</i>
Research Area Keywords	<i>Purchasing, Supply Chain, Buyer-Supplier Relationships, Sustainability, Innovation, Empirical.</i>
Current Research Activities	<i>I am currently working on both a structured literature review and a meta-analysis of supply chain complexity and firm performance. I am also investigating strategic purchasing practices in the hospitality sector. The impact of supply chain disclosure on supplier sustainability practices and performance is also among my research interests. More recently, I have also started to examine the factors affecting the use of business analytics in organizations.</i>

CAN AKKAN (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9685</i>
E-Mail	<i>canakkan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~canakkan/</i>
Research Area Keywords	<i>Production Scheduling, Project Scheduling, Applied Mathematical Programming, Timetabling.</i>
Current Research Activities	<i>Identification of robust timetables (for events, university courses, and appointment systems); developing search heuristics using constraint programming, evolutionary algorithms and integer programming, optimization problems in healthcare systems.</i>

TEVHİDE FATMA ALTEKİN (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9676</i>
E-Mail	<i>altekin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/altekin/</i>
Research Area Keywords	<i>Operations Management, Sustainable Supply Chain Management, Direct Digital Manufacturing, Production Planning, Transportation and Logistics Planning, Disassembly Line Design, Assembly Line Design, Combinatorial and Heuristic Optimization, Simulation Modeling and Analysis.</i>
Current Research Activities	<i>Designing after-sales networks for spare parts. Production planning and scheduling for additive manufacturing. Sustainability implications of direct digital manufacturing. Design and operation of assembly lines and disassembly lines with stochastic task times.</i>

BURÇİN BOZKAYA (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9687</i>
E-Mail	<i>bbozkaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bbozkaya/</i>
Research Area Keywords	<i>Operations Research, Business Analytics, Big Data Analytics, Behavioral Analytics, Operations Management, Combinatorial Modeling and Optimization, Heuristic Algorithm Design and Optimization, Transportation and Logistics Planning, Decision Support Systems, Location Intelligence, Spatial Data-Mining, Geographical Information Systems and Applications.</i>
Current Research Activities	<i>Spatio-Temporal Data Analytics and Visualization; Insurance Fraud Detection; Location-Based Analysis of Customer Spending Data; Churn Analysis; Location and Routing Optimization of ATMs, Bank Branches and Retail Chains; GIS-based Decision Support System Development for Optimization Algorithms; Information Visualization for Location-Based Mobile Data.</i>

**ABDULLAH DAŞCI (DIRECTOR OF THE INTERNATIONAL
RELATIONS OFFICE, FACULTY MEMBER)**

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9664</i>
E-Mail	<i>dasci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/dasci</i>
Research Area Keywords	<i>Supply Chain Management, Logistics Design, Location Analysis, Procurement Design, Digital Transformation.</i>
Current Research Activities	<i>Spare parts distribution logistics system design. Logistics system design in the banking sector. Analysis of procurement contract designs. Profit maximizing branch location in hub-and-spoke networks.</i>

BURAK GÖKGÜR (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9657</i>
E-Mail	<i>bgokgur@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bgokgur/</i>
Research Area Keywords	<i>Retail Operations, Interface of Operations Management and Marketing, Revenue Management, Supply Chain Management.</i>
Current Research Activities	<i>Examining the conditions under which a one-time multi-product discount is more beneficial than individual price discount in terms of the profit that the buyer can achieve. Studying the revenue impact of personalized and dynamically priced multi-product promotions. Investigating the optimal stockpiling strategy of a customer when the retailer extends multi-product offers with a certain depth-frequency combination. Analyzing the impact of the relationship among products on a) the consumer's stockpiling strategy and b) the performance of the retailer's multi-product promotion strategy.</i>

NIHAT KASAP (DEAN)	
Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9680</i>
E-Mail	<i>nihatk@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/nihatk/</i>
Research Area Keywords	<i>Pricing and Quality of Service in Telecommunication Networks, Heuristic Design and Optimization, Mobile Technologies and E-Government Applications, Social Media Analytics and Data Mining, Generation Expansion Planning and Investment in Energy Sector.</i>
Current Research Activities	<p><i>My research areas are Management Information Systems and Operations Research (OR). Usually, I concentrate on the problems in the Information Systems area and try to solve these problems using existing OR techniques and by developing new solution methods. I also use simulation techniques to validate proposed solution methods, implications and insights into the problem. I also use economics and data mining tools/ methodologies for my research. Mainly, I concentrate on the Telecommunications area. I investigate the optimum strategy of firms to minimize their costs while carrying out daily activities such as video conferencing, VOIP, data transmission considering service quality, pricing and capacity constraints. I also study in Mobile Technologies and E-Government Applications. This study thoroughly examines the strategic potential of e-government services as well as analyzing the applicability of such services.</i></p> <p><i>Moreover, I study Social Media Analytics. This study contains Twitter analyses on a range of various research topics such as social movement, conflict and disaster. It also examines the opportunities and limitations of social media usage in various sectors such as sport, education, tourism and finance. Finally, I study generation expansion planning and investment in the energy sector. This study investigates the effects of factors such as the drought expectations as a result of climate changes on various power generation technology investment options.</i></p>

AYŞE KOCABIYIKOĞLU (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9656</i>
E-Mail	<i>kocabiyikoglua@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kocabiyikoglua</i>
Research Area Keywords	<i>Behavioral Operations Management, Decision Making Under Uncertainty, Pricing and Revenue Management.</i>
Current Research Activities	<i>Examining the value and impact of information on newsvendor decisions, studying how conflicting objectives affect inventory decisions, behavioral studies of queuing systems, teamwork in inventory decision making.</i>

FÜSUN ÜLENGİN (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9680</i>
E-Mail	<i>fulengin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/fulengin/</i>
Research Area Keywords	<i>Multiobjective Evaluation of Macrosystems in General, Transportation and Logistics Systems, Multi-Attribute and Group Decision-Making Models, Decision Support Systems, Bayesian Causal Maps, Neural Networks.</i>
Current Research Activities	<i>Dr Üleğin's publications have appeared in a variety of SCI and SSCI journals including Omega, Journal of the Operations Research Society, Socio-Economic Planning Sciences, European Journal of Operational Research, Transportation Research-E, Transportation Research-C, Journal of Production Economics, European Journal of Marketing, The Service Industries Journal, Interfaces, Expert Systems with Applications etc. Currently she is on the Editorial Board of Transportation Policy and Case Studies in Transport Policy journals. She is the member of the Scientific and Steering Committees of the World Conference of Transportation Research Society (WCTRS). Recently, she has been re-appointed as the Scientific Committee Chair responsible for conferences for WCTRS. She is currently the vice-chair of the WCTRS and the advisor of the Transportation and Logistics sector in the Turkish Union of Chambers and Commodity Exchanges (TOBB).</i>





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**İZAK ATİYAS (DIRECTOR FOR TUSIAD-SABANCI UNIVERSITY
COMPETITIVENESS FORUM, IPC SENIOR SCHOLAR,
FACULTY MEMBER)**

Area	<i>Economics / European Studies / Public Policy</i>
Phone	<i>90 (216) 483 9241</i>
E-Mail	<i>izak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/izak/</i>
Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My current research areas are competition law and policy, regulation in telecommunications and electricity industries, and privatization. In the field of competition law, I am currently conducting a TUBITAK-sponsored Project on the Examination of Competition Board Decisions from the Perspective of Law and Economics. The decisions of the Competition Board are examined with two objectives in mind: the first is to evaluate the extent and sophistication of economic analysis they contain. The second is to compare them with the decisions undertaken in the application of competition law in the European Union. In the field of regulation, I am studying the interaction between ex-ante regulation and ex-post enforcement of competition law in the telecommunications industry. In electricity regulation, I am writing a paper on the general assessment of restructuring in the electricity industry in Turkey. In privatization, I have recently published a book chapter on the assessment of the recent privatization experience in Turkey.</i>

SENEM AYDIN-DÜZGİT (IPC SENIOR SCHOLAR & RESEARCH AND ACADEMIC AFFAIRS COORDINATOR, FACULTY MEMBER)	
Area	<i>International Studies / Political Science / European Studies</i>
Phone	<i>90 (216) 483 9292</i>
E-Mail	<i>saduzgit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/saduzgit/</i>
Research Area Keywords	<i>European Foreign Policy, Turkish Foreign Policy, EU-Turkey Relations, Discourse Analysis, International Relations Theory, Identity and Foreign Policy.</i>
Current Research Activities	<i>Senem Aydın-Düzgit is currently completing a project on the culture and identity dimensions of the EU-Turkey relationship funded by Horizon 2020. In January 2019 she started a new Horizon 2020 project on differentiated integration in the EU. She is currently working on a chapter on international democracy support for a book that is forthcoming from Oxford University Press, and another chapter on polarization in Turkey for a book that is forthcoming from Brookings Institution Press. On the European foreign policy front, she is working on an article on the normative contestations of EU foreign policy in the EU's wider neighborhood.</i>

CEM İSKENDER AYDIN (MERCATOR-IPC FELLOW)

Area	<i>Ecological Economics</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>cemiaydin@sabanciuniv.edu</i>
Web	<i>http://ipc.sabanciuniv.edu/people/cem-iskender-aydin/?lang=en</i>
Research Area Keywords	<i>Environmental Governance, Environmental Justice, Ecological Distribution Conflicts, Political Economy of Environment, Energy Policy, Climate Change.</i>
Current Research Activities	<i>Cem is currently working on energy and climate policy, environmental justice and mapping environmental conflicts, and environmental governance. He is conducting the project "Multi-level Governance Using Participatory Multi-criteria Evaluation Frameworks: The Case of Windfarm Conflicts in Turkey" as part of his Mercator-IPC Fellowship. He has also been engaged in the ISSC-funded ACKnowl-EJ (Academic-Activist Co-Produced Knowledge for Environmental Justice) project since 2016.</i>

YOHANAN BENHAIM (MERCATOR - IPC FELLOW)

Area	<i>Political Science / Foreign Policy Analysis/ International Relations</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>yohanana.benhaim@live.fr</i>
Web	<i>http://ipc.sabanciuniv.edu/people/yohanana-benhaim/?lang=en</i>
Research Area Keywords	<i>Foreign Policy, International and Border Trade, Reconstruction, Turkey-Kurdish Regional Government of Iraq Political and Economic Relations.</i>
Current Research Activities	<i>Yohanana's research project aims at identifying the economic foundations of Turkey's transborder policy as well as the way in which this policy contributes to the emergence of an economic space between Iraq, Syria, and Turkey. This research examines the state's economic action in Turkey's neighborhood, the restructuring of the regional economy, and the transformation of businessmen's associations and individual practices.</i>

YAKUP ATİLA ERALP (MERCATOR-IPC SENIOR FELLOW)

Area	<i>European Studies / International Relations / Turkey-EU Studies</i>
Phone	<i>90 (212) 292 4939/1405</i>
E-Mail	<i>atilaeralp@gmail.com</i>
Web	<i>http://ipc.sabanciuniv.edu/people/atila-eralp/</i>
Research Area Keywords	<i>EU Foreign Policy, EU Neighborhood Policy, Turkey-EU Relations, Turkey-Germany-EU Relationship, European Integration, IR Theory.</i>
Current Research Activities	<i>Prof. Dr. Atila Eralp is a Senior Fellow at the Center of European Studies and Emeritus Professor in the Department of International Relations at the Middle East Technical University, Ankara. He was awarded the Jean Monnet Chair on Politics of European Integration in 2002. He has been the Coordinator of the Jean Monnet Centre of Excellence since 2007. He was selected as one of the twenty European Success Studies by the European Commission in 2008. His research interests include the enlargement process, neighborhood policy, EU's foreign and security policy, and the Turkey-EU relationship. Professor Eralp has published numerous articles and books on these issues. Prof. Eralp has coordinated and implemented various interdisciplinary EU-funded research, training, and communication projects. His recent publications include "Turkey's Hub Strategy Conundrum: Energy Debate Meets Foreign Policy" (2017, with Neyyire Nilgün Öner) and "Perceptions and Europeanization in Turkey before the EU Candidacy: An Overview of History" (2015, with Zerrin Torun). Recently, he published a policy brief entitled "Revitalizing Turkey-EU Relations?" (2018) at IPC.</i>

SİNAN ERENSÜ (MERCATOR-IPC FELLOW)

Area	<i>Environmental Sociology</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>sinan.erensu@sabanciuniv.edu, sinanerensu@gmail.com</i>
Web	<i>https://northwestern.academia.edu/SinanErensü</i>
Research Area Keywords	<i>Political Ecology / Political Economy, Environmental Justice, Urban and Rural Theory, Political Geography / Sociology, Development Studies, Water and Energy Infrastructures, Ethnography, Policy, Climate Change.</i>
Current Research Activities	<i>Dr. Erensü is working on a book manuscript proposal titled as Authority in Concrete: Infrastructural Politics of Dispossession in Turkey. The book under construction is built on his dissertation on anti-hydro activism in Turkey but complements it by incorporating new data that illustrates the transfer of energy-related legal tools to other policy areas. He has also embarked on a new project on energy democracy with a particular focus on the potential role of renewable energy cooperatives in democratizing the energy field. Dr. Erensü is also affiliated with Istanbul-based Center for Spatial Justice (Mekanda Adalet Derneği - MAD), in which he coordinates the association's research and educational activities on environmental and urban justice.</i>

PINAR ERTÖR AKYAZI (IASS IPC CO-BENEFITS PROJECT COORDINATOR)

Area	<i>Climate Change</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>pinarertor@gmail.com</i>
Web	<i>http://ipc.sabanciuniv.edu/people/pinar-ertor-akyazi/</i>
Research Area Keywords	<i>Climate Change, Behavioral Economics, Environmental Policy, Ecological Economics.</i>
Current Research Activities	<i>Co-Benefits of Renewable Energy, Experiments on Carbon Pricing, Environmental Justice and Transformation, Fisheries Management.</i>

**AHMET EVİN (IPC SENIOR SCHOLAR,
EMERITUS PROFESSOR)**

Area	<i>European Studies / Political Science</i>
Phone	<i>90 (216) 483 9230</i>
E-Mail	<i>aevin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aevin/</i>
Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>Evin’s research has centered on cultural contexts of political change, in particular the theory of the state and development of democracy as a form of state. As a Jean Monnet Professor, he has worked on policy issues relating to European enlargement and the EU’s eastern partnership, their significance for Turkey and the region, as well as their effect on transatlantic relations. His research as a former senior fellow of the Transatlantic Academy focused on Turkey’s foreign and energy policy in the context of Europe’s energy supply security and its transatlantic implications. As a member of the Advisory Board and senior fellow of Institute of Advanced Studies-Közseg, his research focuses on current developments in Central Europe and Southeastern Europe. His more recent research interests on the “Future of the Liberal Order,” has resulted in three reports, the most recent of which is “The Sliding West: Populism and Religion as Challenges to the Liberal Order” (coauthored with Megan Gislson, published by IPC in July 2016). His most recent book “Turkey and the EU: Energy, Transport and Competition Policies” was published in the European Energy Studies Series by Claeys & Casteels (2016). Since 2017, he has taken up, as a sequel to the future of the ‘Liberal Order’, research on Eurasia in the context of which an initial roundtable conference was organized at DGAP, the report of which was published by IPC in 2018.</i>

AKGÜN İLHAN (MERCATOR-IPC FELLOW)

Area	<i>Environmental Social Sciences / Water Policy & Management</i>
Phone	90 (212) 292 4939
E-Mail	akgun.ilhan@sabanciuniv.edu
Web	http://ipc.sabanciuniv.edu/people/akgun-ilhan/?lang=en
Research Area Keywords	<i>Environmental Justice, Water Policy, Water Management, Water Crisis, Environmental Social Movements, Climate Change.</i>
Current Research Activities	<i>Akgün is currently working on urban water demand management through water conservation and efficiency as a climate change adaptation strategy. She is conducting the project “Tracing possibilities of urban water demand management in the climate change age in Turkey: Deriving lessons from Istanbul and Berlin” as part of her Mercator-IPC Fellowship. She is also working on two books with her colleagues regarding Istanbul’s natural and cultural heritage.</i>

AYŞE KADIOĞLU (FACULTY MEMBER, IPC SENIOR SCHOLAR)

Area	<i>European Studies / Political Science / International Studies</i>
Phone	90 (216) 483 92 35
E-Mail	ayse@sabanciuniv.edu; akadioglu@fas.harvard.edu
Web	http://myweb.sabanciuniv.edu/ayse/my-cv/
Research Area Keywords	<i>Hybrid Regimes, Competitive Authoritarianism, Electoral Authoritarianism.</i>
Current Research Activities	<i>Ayşe Kadioglu has been a Visiting Scholar at Harvard University, Minda de Gunzburg Center for European Studies since mid-January 2018. She has been conducting research on the discourses of new authoritarian regimes where elections coexist with authoritarian measures and the new challenges they pose for the opposition political parties especially in the cases of Turkey and Venezuela while observing the nature of democratic backsliding and the impact of the European Union processes in Poland. She has recently published an article titled “Reading John Stuart Mill in Turkey in 2017” in Middle East Law and Governance (10/2, 2018, pp.203-232).</i>

**ERSİN MAHMUT KALAYCIOĞLU (IPC SENIOR SCHOLAR,
FACULTY MEMBER)**

Area	<i>Political Science / Turkish Studies</i>
Phone	<i>90 (216) 483 9345</i>
E-Mail	<i>kalaycie@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kalaycie/</i>
Research Area Keywords	<i>Political Representation, Political Participation, Voting Behavior, Political Culture.</i>
Current Research Activities	<i>Kalaycioğlu published research reports on field surveys conducted in 2017 on “State – Citizen Interface in Turkey,” (in English) which is the application of the International Social Survey Program (ISSP) Role of Government Survey 2015, and “Work Orientation,” (in Turkish) which is the application of the ISSP, Work Orientation Survey of 2016, both co-authored with Ali Çakaroğlu in February 2018, at the Istanbul Policy Center (IPC) web site under Reports. Kalaycioğlu has also published an article on the two 2015 elections: “Two elections and a political regime in crisis: Turkish politics at the crossroads,” Southeast European and Black Sea Studies, 18:1, 21-51 and is currently publishing a report on “Nationalism in Turkey and The World,” which was prepared as part of the International Social Survey Program (ISSP). He also conducted a national field survey during the pre and post - June 2018 General Elections with Ali Çarkoğlu, Mert Moral, and Erdem Aytaç. Kalaycioğlu is currently working on the field surveys for the ISSP Social Networks (2017) and ISSP Religiosity (2018) with Ali Çarkoğlu of Koç University.</i>

FUAT KEYMAN (VICE PRESIDENT FOR INSTITUTIONAL AFFAIRS AND SOCIAL IMPACT, IPC DIRECTOR, FACULTY MEMBER)

Area	<i>Political Science / Public Policy / International Studies / Conflict Analysis and Resolution</i>
Phone	90 (216) 483 9115
E-Mail	fuat@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/fuat/
Research Area Keywords	<i>Globalization; Democratization; Turkish Politics; International Relations; Turkey – EU Relations; Turkish Foreign Policy; and Civil Society Development.</i>
Current Research Activities	<p><i>“Promises and Challenges of Diversity: The Role of Civil Society Initiatives in Fostering Pluralism”, Istanbul Policy Center, October 2018 (with Feyzi Baban, Hande Paker, and Kim Rygiel). ISBN: 978-605-2095-37-9</i></p> <p><i>“Social Cohesion in Turkey”, Istanbul Policy Center, June 2018 (with Aysen Ataseven and Çağla Bakış). ISBN: 978-605-2095-25-6</i></p> <p><i>“Water and Food Security in Turkey in a Changing Climate,” Istanbul Policy Center, March 2018 (with Tuğba Ağaçayak). ISBN: 978-605-2095-18-8</i></p> <p><i>Keyman, Fuat, Nora Fisher-Onar, and Susan C. Pearce, ed. Istanbul: Living with Difference in a Global City (İstanbul: Küresel Bir Şehirde Farklılıklarla Birlikte Yaşamak). February 2018.</i></p>

ELLEN KOLLENDER (MERCATOR-IPC FELLOW)

Area	<i>EU/German-Turkish Relations</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>ellen.kollender@hsu-hh.de</i>
Web	<i>https://web.hsu-hh.de/fak/geiso/fach/pae-ivb/team/kollender</i>
Research Area Keywords	<i>Migration and Education, Social Inequality, Intersectional Discrimination, School Development, Neoliberal Transformation in Education, Inclusion.</i>
Current Research Activities	<i>As a Mercator-IPC-Fellow Ellen examines the roles and strategies of non-governmental and civil society actors in fostering processes of an inclusive education in urban school settings in Istanbul and Berlin. In her recently completed dissertation, she explored processes of social exclusion of ‘muslim’ and ‘immigrant’ families against the backdrop of current nationalist discourses and neoliberal educational reforms in Germany. Her work also includes the examination and development of approaches to a democratic and inclusive education that meets the requirements of modern-day migration societies.</i>

AYŞE KÖSE BADUR (RESEARCHER)

Area	<i>International Relations / Modern Turkish History</i>
Phone	<i>90 (212) 292 4939/1416</i>
E-Mail	<i>aysekose@sabanciuniv.edu</i>
Web	<i>http://ipc.sabanciuniv.edu/people/ayse-kose/?lang=en</i>
Research Area Keywords	<i>Peacebuilding, Mediation and Conflict Resolution, International Relations, Urbanization, Turkish Politics, and Modern Turkish History.</i>
Current Research Activities	<i>Ayşe Köse Badur's research interests in her work in IPC focus on two different areas: conflict resolution and urbanization. On the conflict resolution side, she is involved in the project "Making the Peace Process Sustainable: The Social Acceptance of the Peace Process in the Post-Conflict Period." The project is funded by TÜBİTAK and was completed at the beginning of 2019. On the urbanization field, she is working on a two-stage research project, conducted by the Local Democracy and Governance Forum initiated by IPC and TURKONFED. The first stage has been completed, and a report based on the city-region concept was published on April 2017. The second stage covers a more detailed research in four city-regions: Izmir, Konya, Adana-Mersin, and Van. The second report of this project was published in April, 2019.</i>

JOANNA KRZEMINSKA (MERCATOR - IPC FELLOW)

Area	<i>EU / German-Turkish Relations</i>
Phone	<i>49 (1520) 585 6600</i>
E-Mail	<i>jojo.krzeminska@googlemail.com</i>
Web	<i>http://ipc.sabanciuniv.edu/people/joanna-krzeminska/?lang=en</i>
Research Area Keywords	<i>Arts in Education, Syrian Refugees, School Development, Participation, Inclusion.</i>
Current Research Activities	<i>Joanna's current research project at IPC examines development strategies for establishing artistic-creative and inclusive learning processes for refugee students at Turkish elementary schools.</i>

**MELTEM MÜFTÜLER BAÇ (IPC SENIOR SCHOLAR,
FACULTY MEMBER)**

Area	<i>Political Science / European Studies / International Studies</i>
Phone	90 (216) 483 9247
E-Mail	<i>muftuler@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/muftuler/</i>
Research Area Keywords	<i>Turkey, European Integration, Differentiated Integration, Migration, Foreign Policy, Democratization, Political Conditionality.</i>
Current Research Activities	<p><i>EU enlargement, European (dis)integration, parliamentary cooperation, Turkey-EU relations, foreign aid, migration governance.</i></p> <p><i>Currently a consortium member in two H2020 projects- InvDivEU (2019-2022)- on differentiation integration in the EU and MAGYC (2018-2022)-migration governance and asylum policies as well as advisory board member in two H2020 projects- EU-List on European foreign policy and FEUTURES- Turkey's Futures with the EU. Most recent publications are <i>Diverging Pathways: Turkey and the European Union</i>, <i>Re-Thinking the Dynamics of Turkish-European Union Relations</i> published by Barbara Budrich in 2016, "Turkey's future with the EU: Alternative modes of integration", <i>Turkish Studies</i>, 2017 and "Turkey's Compliance with the European Union's Development Policy: A Pattern of External Differentiated Integration?", <i>Journal of European Integration</i>, 2018, co-authored with Damla Cihangir-Tetik. Muftuler-Bac holds two prestigious awards from the Turkish Academy of Sciences: Young Social Scientist Investigator Award in 2002 and Distinguished Young Scientist Award in 2003.</i></p>

MAISSAM NIMER (MERCATOR-IPC FELLOW)	
Area	<i>Sociology</i>
Phone	<i>90 (212) 292 4939/1408</i>
E-Mail	<i>msnimer@gmail.com</i>
Web	<i>https://mysite.ku.edu.tr/mnimer/</i>
Research Area Keywords	<i>Sociology of Migration, Education, Social Class Inequalities, Gender, Language.</i>
Current Research Activities	<i>As a Mercator-IPC fellow at Sabanci University, Maissam Nimer explores the role of language instruction in integration of adult Syrian refugees in Turkey. She is completing a project as a postdoctoral researcher at Koç University, which deals with the integration of Syrian refugee youth in Turkey. She is also a committee member of the “Axe Migrations et Mobilités” at the French Institute for Anatolian Studies, Istanbul (AMiMo, IFEA). Her more recent publication “Gendered socializations and critical reflexivity in an Elite University in Lebanon,” in <i>Gender and Education</i>, 2018, is based on her PhD thesis in sociology completed at Paris Saclay University in July 2016. In her thesis, she looked at the mechanisms of social and cultural selection that explain the inequality of access to higher education in Lebanon. Also from her PhD, she published a book chapter “Developing Human Capital or Encouraging Emigration? A Case Study of an International Development Program in Lebanon” with Cambridge Scholars Publishing, 2018.</i>

PELİN OĞUZ (MERCATOR-IPC FELLOWSHIP COORDINATOR)	
Area	<i>Political Science / Environmental Studies / Conflict Studies</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>pelinoguz@gmail.com</i>
Web	<i>http://ipc.sabanciuniv.edu/people/pelin-oguz/?lang=en</i>
Research Area Keywords	<i>Environmental Governance, Climate Change, Turkish Politics, Conflict Analysis.</i>
Current Research Activities	<i>Pelin Oğuz works as the Mercator-IPC Fellowship coordinator. In terms of research, she is currently working on environmental governance and neoliberalism in the context of hydro-electric power plants.</i>

ENDER PEKER (MERCATOR-IPC FELLOW)	
Area	<i>Urban Planning</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>peker@sabanciuniv.edu</i>
Web	<i>http://ipc.sabanciuniv.edu/fellow/ender-peker</i>
Research Area Keywords	<i>Climate Change, Urban Planning, Urban Design, Climate Responsive Urbanism, Environmental Psychology.</i>
Current Research Activities	<i>Ender's current research aims at exploring the experienced challenges in translating national level climate strategies into local level urban development practices. Through conducting action research, his project also aims to create a positive change in a number of municipalities that have included climate change in their urban agendas.</i>

DEĞER SAYGIN (SHURA PROJECT DIRECTOR)

Area	<i>Energy Transition</i>
Phone	<i>90 (538) 472 8136</i>
E-Mail	<i>deger.saygin@shura.org.tr</i>
Web	<i>http://www.shura.org.tr</i>
Research Area Keywords	<i>Energy Transition, Renewable Energy, Energy Efficiency, Energy Technology, Climate Change.</i>
Current Research Activities	<i>Deger Saygin works as the Director of SHURA Energy Transition Center, which was founded by the European Climate Foundation (ECF), Agora Energiewende, and Istanbul Policy Center (IPC) at Sabancı University. SHURA contributes to decarbonization of the energy sector via an innovative energy transition platform.</i>

ÜMİT ŞAHİN (FACULTY MEMBER, IPC CLIMATE STUDIES COORDINATOR)

Area	<i>Environmental Politics / Public Policy</i>
Phone	<i>90 (212) 292 4939/1410</i>
E-Mail	<i>umitsahin@sabanciuniv.edu</i>
Web	<i>http://ipc.sabanciuniv.edu/people/umit-sahin/</i>
Research Area Keywords	<i>Climate Change, Global Warming, Climate Policy, Environmental Politics, Environmental Policy, Public Policy, Sustainable Development, Environmental Science, Public Health.</i>
Current Research Activities	<i>Mapping and Analysis of Climate Policies in Turkey; Climate Policy Process and Deliberative Democracy in Turkey; Public Health Impacts of Climate Change; Drought and Climate Change; Low-Carbon Development in Turkey; International Climate Negotiations; Socio-technical Transition and Carbon Lock-in; Climate Change Communication; Climate Movement, Green Politics.</i>

JANNES TESSMANN (MERCATOR-IPC FELLOW)

Area	<i>EU / German-Turkish Relations</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>tessmann@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Global Value Chains, Value Chain Governance, Industrial Upgrading, Political Economy, Globalization, Industrial Policy, Refugees.</i>
Current Research Activities	<i>Jannes Tessmann is a political scientist working on the governance of global industries. His research explores how states and private sector organizations regulate globally dispersed production networks and how these public and private forms of governance interact with each other. His current research explores how legal employment opportunities for refugee workers can be improved in Turkey-EU garment value chains.</i>

GÖKÇE UYSAL (MERCATOR-IPC FELLOW)

Area	<i>Economics</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>gokce.uysal@eas.bau.edu.tr</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Labor Economics, Gender, Migration, Education Economics, Household Savings, Discrimination.</i>
Current Research Activities	<i>Gokce Uysal works on the labor markets in Turkey, and particularly, on the vulnerable groups in the labor market. Her recent project funded by TUBITAK on the female labor force participation rate in Turkey, its dynamics and the reasons why it has remained low, has resulted in an article and book chapter. Currently, she is working on the labor market integration of Syrian refugees, and the policies that may facilitate their access to livelihoods. In this line of research, she has led a labor market assessment funded by the International Youth Foundation, and has acted as a country expert for a report titled "Coping with Large Migration Flows in Low and Middle Income Countries". Her recent research will continue to focus on the labor market integration aspects of force displacement in Turkey, Germany and Italy from a comparative perspective.</i>

ANDREA WEISS (MERCATOR-IPC FELLOW)

Area	<i>Social Anthropology / Political Science / Area Studies</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>andrea.weiss@mailbox.org</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Caucasus, Caucasus-Turkey Relations, EU-Turkey Relations, Anthropology of Infrastructure.</i>
Current Research Activities	<i>As a Mercator-IPC fellow, Andrea Weiss' project focuses on the role of the Baku-Tbilisi-Kars-railway (BTK) for EU-Turkish relations as part of Europe-China connectivity. Her project is anthropological in character and employs elements of multi-sited ethnography to analyse the role of geopolitical imagery in BTK's appropriation and usage.</i>

ANNEGRET WARTH (MERCATOR - IPC FELLOW)

Area	<i>EU / German-Turkish Relations / Youth Studies</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>warth@em.uni-frankfurt.de</i>
Web	<i>http://ipc.sabanciuniv.edu/fellow/annegret-warth/?lang=en</i>
Research Area Keywords	<i>Youth, Youth Welfare, Youth Exchange, Local Governance.</i>
Current Research Activities	<i>Annegret Warth is an educational scientist focusing on international comparative youth and youth welfare research. Her current interests are heterogeneous youth in Istanbul and Turkey, internationalization of youth work, and local authorities and networks. As a Mercator-IPC Fellow she explores how municipalities and local networks can support the internationalization of local youth work organizations. The project aims to give recommendations on how to provide further support to youth exchanges between Germany and Turkey.</i>

BAHRİ YILMAZ (IPC SENIOR SCHOLAR, EMERITUS PROFESSOR)

Area	<i>Economics / European Studies</i>
Phone	<i>90 (216) 483 9236</i>
E-Mail	<i>bahri@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bahri/</i>
Research Area Keywords	<i>International Economics; Macroeconomics, History of Economic Thought, European Economic Integration; Economic Development (Eastern Asia and China).</i>
Current Research Activities	<i>Institutions and Economic Development; World Economic Crisis and its Impacts on Turkey; European Energy Security and the Role of Turkey; Relations of Turkey with the EU; China's Economic Development and EU-Chinese Relations.</i>





SUNUM

SABANCI UNIVERSITY NANOTECHNOLOGY
RESEARCH AND APPLICATION CENTER

SELMİYE ALKAN GÜRSEL (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9573</i>
E-Mail	<i>selmiye@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/~selmiye/</i>
Research Area Keywords	<i>Fuel Cells, Proton-Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium-ion Batteries, Artificial Muscles, Conducting Polymers.</i>
Current Research Activities	<i>Synthesis & Characterization of Proton Exchange Membranes for Fuel Cells, Graphene-based Electrodes & Catalyst Supports for Fuel Cells, Radiation-induced Grafting, Micro-Nanomaterials for Artificial Muscles, Electrodes and Electrolytes for Lithium-ion Batteries, Electrochemical Synthesis & Characterization of Conducting Polymers.</i>

CANAN ATILGAN (FENS DEAN, PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9523</i>
E-Mail	<i>canan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/canan</i>
Research Area Keywords	<i>Polymer and Protein Dynamics, Theoretical and Computational Investigation of Complex Molecular Systems.</i>
	<i>Conformational and dynamical response of proteins to environmental changes such as pH and ionic strength, effect of point mutations to antibiotic resistance, understanding self-assembly principles of oligomers for nanoparticle applications, development of multiscale methods for investigating dynamical features of macromolecules that act as nanomachines.</i>

FERAY BAKAN (RESEARCHER)	
Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9000/2406</i>
E-Mail	<i>feraybakan@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/</i>
Research Area Keywords	<i>Bioceramic Nanoparticles, Nanocharacterization, Functional Surfaces.</i>
Current Research Activities	<i>Calcium phosphate based nano biomaterials and their toxicity assessment, Nanocharacterization and Spectroscopy techniques (AFM, SEM, EDS, Raman, FTIR, XRD) Artificial bone composites, Bone fracture healing, Nanostructuring by focused electron and ion beams, Surface Modification of Materials using Gas Assisted Etching in Dual-Beam Platforms, Gene silencing with siRNA using nanoparticles as carrier.</i>

HÜVEYDA BAŞAĞA (PART-TIME RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9511</i>
E-Mail	<i>huveyda@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~huveyda/</i>
Research Area Keywords	<i>Signaling Pathways Leading to Gene Expression in Cancer Cells, Transcriptional Control of Cell Survival and Apoptosis, Molecular Basis of Inflammation, Oxidative Stress and Antioxidants as Signalling Molecules.</i>
Current Research Activities	<p><i>We address the specific role of Bcl-2 proteins in HNE induced apoptosis as they can be considered major therapeutic targets for the treatment of atherosclerosis. Furthermore, protection exerted by phytoestrogens on the apoptotic effect of HNE is also within our research scope. Another line of research is to study the transcriptional regulation exerted by NF-κB and FOXO on the drug related chemoresistance mechanism and identify the role of Bcl-2 protein family members (Bcl-2, Bcl-xL, Bax, Bak, Bad) in the apoptotic response. Specifically the role of Bcl-2 proteins as apoptotic switch in cancer development and therapy is the theme of current research.</i></p> <p><i>A recent line of research is the characterization of the biological effects of drug loaded nanoparticles in several cell lines. In one of our projects, we are trying to increase the antioxidant defense capacity of cells by using a specifically designed nanosystem. For this purpose, a nanosystem has already been tested in the 3T3 fibroblast cell line. More recently, we are seeking to design and implement a nanoparticle-porphyrin based theranostic agent to be used in targeted photodynamic therapy. Our specific aims regarding theranostics are: to develop new tools for one step imaging and therapy for cancer, to understand the role of antioxidant response in nanosystem based photodynamic therapy, and to develop and understand the mechanisms of novel theranostic tools for anti-cancer treatment.</i></p>

MUSTAFA KEMAL BAYAZIT (RESEARCHER)

Area	<i>Materials Chemistry and Engineering</i>
Phone	<i>90 (216) 568 7921</i>
E-Mail	<i>mkbayazit@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/mkbayazit/</i>
Research Area Keywords	<i>Carbon Nanomaterials and Their Applications, Microwave Flow Manufacturing, Flow/Batch Reactors, Metal/Metal Oxide Nanoparticles, Hybrid Materials and Composites, Advanced Energy Materials, Organic/Polymer Synthesis, Sensing, Biomaterials, Thin Films, Fluorescent Systems, Self-assembly, Hierarchical Networks, Crystallization.</i>
Current Research Activities	<i>Graphene, Carbon Nanotubes, Fullerene, Carbon Nitride, Exfoliation, Surface Functionalization, Materials Characterization, Hydrogels, Organogels, Aerogels, Hybrid Nanomaterials, Transition Metal Dichalcogenides, Hydrogen Production, Water Splitting, Water Purification, Membranes, Sensing, Matrix Composites.</i>

AYHAN BOZKURT (PART-TIME RESEARCHER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9537</i>
E-Mail	<i>abozkurt@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/abozkurt/</i>
Research Area Keywords	<i>VLSI Design for Analog/Digital Sensor Interfaces, Microelectromechanical System (MEMS) Modeling and Design, Medical Instrumentation (Sensor and Sensor Interface Design), Acoustic Microscopy (Material Characterization, Lens Design).</i>
Current Research Activities	<i>Front-end electronics design for ultrasonic imaging and therapeutics; micromachined ultrasonic transducer design for intravascular ultrasound (IVUS) and high-intensity focused ultrasound (HIFU) applications; and transducer modeling.</i>

FEVZİ ÇAKMAK CEBECİ (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9877</i>
E-Mail	<i>fccebeci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/fccebeci/</i>
Research Area Keywords	<i>Corrosion, Electrochemistry, Energy Storage, Materials Chemistry, Mechanical Behavior of Materials, Nanotechnology, Polymers, Thin Films.</i>
Current Research Activities	<i>Dr. Cebeci's research currently focuses on designing hybrid supercapacitors with vertically aligned carbon nanotubes as an active electrode component and conducting polymer as a redox-active component; new electrode materials for lithium-ion batteries based on carbon nanofibers and carbon nanotubes; polyelectrolyte and nanoparticle thin films prepared by a layer-by-layer technique for corrosion protection; and nanofiber based nanocomposites for artificial muscle applications.</i>

BÜŞRA TUĞBA ÇAMIÇ (TECHNICAL SPECIALIST)

Area	<i>Materials Science and Engineering, Electron Microscopy</i>
Phone	<i>90 (216) 483 2461</i>
E-Mail	<i>tcamic@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Fabrication of Graphene, Silver and Copper Nanowire Based Transparent Conductive Electrodes, Surface Modification of Nanomaterials, Solution Based Coating Techniques of Nanomaterials.</i>
Current Research Activities	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy (SEM), Nanofabrication and Nanostructuring using Focused Electron and Ion Beams, Development of Functional Surfaces.</i>

SÜLEYMAN ÇELİK (TECHNICAL STAFF)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9000/2409</i>
E-Mail	<i>scelik@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/scelik/</i>
Research Area Keywords	<i>OLED Displays, Graphene Growth and Characterization, Graphene Transfer Methods, Contact and Non-contact Atomic Force Microscopy, Scanning Tunnelling Microscopy, Gene Transfer and Isolation Methods, Artificial Lipid Bilayers.</i>
Current Research Activities	<i>Graphene and ITO Based OLED Display Applications, Passive Matrix Display Design, Graphene Growth, Characterization and Transfer, Analysing of Artificial Lipid Bilayers with Atomic Force Microscopy in Liquids.</i>

SİBEL ÇETİNEL (RESEARCHER)

Area	<i>Bioengineering and Nanobiotechnology</i>
Phone	<i>90 (216) 483 9000 - 7927</i>
E-Mail	<i>cetinel@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Tissue Engineering, Bionanotechnology, Inorganic Binding Peptides, Biosensors, Peptide Hydrogels, Cataract, Glaucoma.</i>
Current Research Activities	<i>Tissue engineering applications for regenerative medicine in ophthalmology field. Nanobiotechnology approaches to generate detection and treatment methods for ophthalmologic disorders. Biosensor engineering for generation of on-site pathogen detection.</i>

GÜLCAN ÇORAPCIOĞLU (TECHNICAL SPECIALIST)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 568 7017</i>
E-Mail	<i>gulcan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulcan</i>
Research Area Keywords	<i>(Scanning) Transmission Electron Microscopy, Sintering, Lead-free Piezoelectric Ceramics.</i>
Current Research Activities	<i>Synthesis and sintering of lead-free piezoelectric ceramics. Characterization of materials. Spectroscopic analysis in micro and nano level by EDX.</i>

MELTEM ELİTAŞ (PART-TIME RESEARCHER)	
Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9568</i>
E-Mail	<i>melitas@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/melitas</i>
Research Area Keywords	<i>Biomechatronics, Biomechanics, Biomedical, Microfluidics, Microscopy, Cancer-Immune Cell Interactions, Laparoscopic Tools.</i>
Current Research Activities	<p><i>Our research interests are in the direction of developing tools and methods for quantitative biology. We aim to modify traditional batch culture methods and develop novel microfabricated tools, mostly compatible with microscopy, to precisely measure and quantitatively characterize cellular behavior for various cell types ranging from bacteria to mammalian cells. Production of diagnostic and monitoring devices for point-of-care testing using obtained quantitative data and developed technologies for fundamental biological concepts are among our primary research goals.</i></p> <p><i>Understanding of Hepatocellular Cancer Biology and Sorafenib-Killing Mechanisms.</i></p> <p><i>Collaboration with Prof. Dr. Serdar Turhal (ASM), Prof. Dr. Tamer Yagci (GTU).</i></p> <p><i>Development and Implementation of Dielectrophoretic Technologies to Characterize Cellular Properties.– Collaboration with Prof. Dr. Rodrigo Martinez-Duarte (Clemson University), Prof. Dr. Philippe Renaud (EPFL).</i></p> <p><i>Development of Microfluidic Platform for Arabidopsis thaliana-Root Phenotyping for Abiotic Stress Studies. –Collaboration with Prof. Dr. Hikmet Budak (Sabanci University).</i></p> <p><i>Tumor-Macrophage Paracrine Signaling in Glioblastoma Brain Cancers.–Collaboration with Prof. Rong Fan (Yale University).</i></p> <p><i>Laparoscopic Tools and Robotic Surgery.-Collaboration with Assoc. Dr. Tugrul Tansug (Gebze Konak Hospital).</i></p>

EMRE ERDEM (PART-TIME RESEARCHER)	
Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9881</i>
E-Mail	<i>emreerdem@sabanciuniv.edu</i>
Web	<i>https://fens.sabanciuniv.edu/tr/fakulte-uyeleri/detail/3233</i>
Research Area Keywords	<i>Physics of Materials; Spectroscopy (EPR, Raman, Photoluminescence, Impedance); Physical Chemistry; Solid State Physics; Graphene; Carbon dots; Semiconductors; Nanoparticles and Nanocrystals; Ceramics; Powder Processing; Phase Transitions; Photovoltaics; Solar Cells; Thermoelectrics; Supercapacitors, Li-ion batteries; Piezoelectric Nanowires and Nanogenerators; Wearable Electronics; Energy Harvesting and Storage; Electrical Vehicles; Microelectronic Systems; Battery Management Systems; Grippers for Robot Farms, Materials for Grippers; Thin Film Batteries.</i>
Current Research Activities	<i>The focus of my research activities lies on experimental materials engineering, solid state physics and preparative chemistry of multifunctional nanomaterials. The strong interconnection of tailor-made functional materials and the solid state or physical characterization of functional properties are highly important for solving complex issues in the field of materials science. In this context, white light-emitting diodes, printable electronics, ceramic actuators, graphene-based supercapacitors and spinel-type anode/cathode materials for Li-ion batteries shall be mentioned as prominent examples in the area of energy harvesting and storage. With my research team at Sabanci University, we are working on understanding and establishment of structure-function relationships of solid-state energy materials. This means that material manipulation on the molecular scale (by smart synthesis) and on the mesoscopic scale (by size and morphology tuning) are used to tailor-make functional properties. On the molecular scale, we have synthesized and developed polymeric, hybrid and ceramic solid materials.</i>

Current Research Activities	<i>On the mesoscopic scale, to study electronic, vibrational, electric and optical properties of resulting products and structures, bottom-up and top-down approaches have been used to synthesize micron-, nano- and quantum dot-sized structures that are characterized not only by high-resolution microscopic techniques, such as scanning and transmission electron microscopy (SEM/TEM), but also by physical characterization and spectroscopic techniques, such as electron paramagnetic resonance (EPR), Raman, impedance and photoluminescence (PL). Specifically, we are using enhanced spectroscopic methods, such as impedance spectroscopy, as the main tool to study conductivity, charge transport and other electrical properties in solid-state electronic and ionic systems. This highly fundamental research approach is closely related to nano-technological and energy harvesting applications.</i>
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BATU ERMAN (PART-TIME RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9530</i>
E-Mail	<i>batu@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~batu</i>
Research Area Keywords	<i>Molecular and Cellular Biology, Immunology, Signal Transduction, Lymphocyte Development, p53 protein, Cancer Research, Genome Editing, Gene Therapy.</i>
Current Research Activities	<i>We use molecular biology techniques to conduct basic research on the molecular mechanisms of signal transduction and gene activation in the mammalian immune system. We investigate how genes get turned on and off in T lymphocytes and we study molecular interactions that are critical for cancer research such as the association of p53-MDM2/4 and the structure and function of BTB domain transcription factors. Our research interests include high throughput screening of small molecule libraries to identify inhibitors that can be developed as novel drugs. We routinely use the CRISPR/Cas9 genome editing technique, X-ray crystallography to identify protein structure and advanced microscopy techniques such as confocal and live cell imaging to address these questions.</i>

MORTEZA GHORBANI (PART-TIME RESEARCHER)

Area	<i>Mechanical Engineering</i>
Phone	<i>90 (216) 483 9000</i>
E-Mail	<i>mghorbani@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/mghorbani/</i>
Research Area Keywords	<i>Microfluidics, Cavitation, Multiphase Flow in Confined Geometries, Ultrasound, Acoustic Droplet Vaporization (ADV).</i>
Current Research Activities	<ol style="list-style-type: none"> <i>1. Ghorbani, M., Deprem, G., Ozdemir, E., Motezakker, A.R., Villanueva, L.G., and Koşar, A., "On "Cavitation on Chip" in Microfluidic Devices with Surface and Sidewall Roughness Elements," IEEE Journal of Microelectromechanical Systems, 10.1109/JMEMS.2019.2925541, 2019.</i> <i>2. Aghdam, A.K., Ghorbani, M., Deprem, G., Cebeci, and Koşar, A., "A New Method for Intense Cavitation Bubble Generation on Layer-by-Layer Assembled SLIPS," Scientific Reports, in press 2019.</i> <i>3. Ghorbani, M. Chen, H., Villanueva, L.G., Grishenkov, D. and Koşar, A., "Intensifying Cavitating Flows in Microfluidic Devices with Poly(vinyl alcohol) (PVA) Microbubbles," Physics of Fluids, 30(10), 2018</i> <i>4. Ghorbani, M., Sadaghiani, A.K., Villanueva, G.L., and Kosar, A., "Hydrodynamic Cavitation in Microfluidic Devices with Roughened Surfaces," Journal of Micromechanics and Microengineering, 28 (7), 075016, 2018.</i> <i>5. Ghorbani, M., Alcan, G., Sadaghiani, A.K., Mohammadi, A., Unel, M., Gozaucik, D., and Kosar, A., " Characterization and Pressure Drop Correlation for Sprays under the Effect of Micro Scale Cavitation," Experimental Thermal and Fluid Science, 91, pp. 89-102, 2018.</i>

EDA GOLDENBERG (RESEARCHER)

Area	<i>Materials Engineering / Nano Technology</i>
Phone	<i>90 (216) 483 7920</i>
E-Mail	<i>eda.goldenberg@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Functional Materials, Ion Beam Techniques, Material Growth, Thermo-Mechanical Properties, Material Characterization.</i>
Current Research Activities	<i>Functional Surfaces, Inorganic Materials, Corrosion Resistant Coatings, High Temperature Materials, Semiconductors, Material Development for Defence and Energy Applications.</i>

DEVİRİM GÖZÜAÇIK (VICE DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACE AND INTERFACES, PART-TIME RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9617</i>
E-Mail	<i>dgozuacik@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/dgozuacik and http://efsun.sabanciuniv.edu</i>
Research Area Keywords	<i>Molecular Basis of Human Diseases, Cancer Biology, Drug Research, Nano Diagnostics, Nano Medicine, Cellular Stress, Autophagy.</i>
Current Research Activities	<i>The Gözüaçık Lab Focuses on "cellular stress and death response mechanisms". In particular, regulation mechanisms of stress-related autophagy responses, novel autophagy protein and pathway discovery, the role of autophagy abnormalities in human diseases (especially neurodegenerative diseases and cancer), novel cancer diagnosis methods and innovative drug discovery.</i>

MEHMET ALİ GÜLGÜN (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9536</i>
E-Mail	<i>m-gulgun@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/m-gulgun</i>
Research Area Keywords	<i>Ceramics, Electron Microscopy and Spectroscopy, Ion Conductors, Fuel Cells, Batteries, Cementitious Materials, and Oxide Synthesis.</i>
Current Research Activities	<p><i>The research activities of our group lie in four major areas: I. microstructural engineering through sintering, densification and grain growth in functional polycrystalline ceramics; II. fast ion-transporting materials for fuel cells, solar cells, Li-Ion batteries, and conventional wet batteries; III. synthesis of oxide ceramics with tailored optical properties for phosphorescent or thermochromic applications; IV. finding a more environmentally friendly low-temperature production alternative for cementitious materials in severe environments, including construction materials for space-explorations.</i></p> <p><i>In our research activities, we use electron microscopy and spectroscopy extensively to unveil the origins of material behaviour.</i></p>

SERAP HAYAT SOYTAŞ (RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9000 - 2443</i>
E-Mail	<i>seraphayat@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/seraphayat</i>
Research Area Keywords	<i>Energy, Metal-ion Batteries, Fuel Cells, Electrospinning, Carbon Nanofibers, Polymer Synthesis and Characterizations, Living/Controlled Polymerizations, Polymer Structure-Property Relationships.</i>
Current Research Activities	<p><i>Development of high-capacity anode materials for metal-ion batteries,</i></p> <p><i>Development of catalyst/electrodes for PEM fuel cells,</i></p> <p><i>Synthesis of CNF-metal hybrid structures for energy storage/ conversion,</i></p> <p><i>Synthesis of organic/inorganic hybrid polymers,</i></p> <p><i>Development of nanofiber/natural clay/antibacterial nanocomposites via green electrospinning for biomedical and food packaging applications.</i></p>

CATHERINE HIREL (RESEARCHER)

Area	<i>Synthesis of Phthalocyanines, Porphyrins and Nitronyl Nitroxides, Oxygen Sensor, Magnetic Molecular Material, Hybrid Solid-State Electrolytes for Lithium Batteries</i>
Phone	<i>90 (216) 568 7919</i>
E-Mail	<i>chirel@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Phthalocyanines, Porphyrins, Nitronyl Nitroxides, Optical Sensor, Molecular-Based Magnets.</i>
Current Research Activities	<i>Research activities include the design, synthesis and characterization of organic derivatives, mainly Phthalocyanines, porphyrins and nitronyl nitroxides, for understanding the structure-properties relationships in the field of optical sensor and molecular-based magnets. Recently, the conception of rational interface for hybrid solid-state electrolytes for lithium batteries is a new focus interest.</i>

GÖZDE İNCE (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9878</i>
E-Mail	<i>gozdeince@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/gozdeince/</i>
Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication and Characterization of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our current research focuses on stimuli-responsive polymer thin-films and nanostructures. We develop different types of stimuli-responsive polymers and study their response behavior under different conditions. In addition to these fundamental studies, we also fabricate thin-films and polymer nanostructures with optimized response characteristics for various applications, including drug-delivery, biological sensors, responsive coatings and separation membranes.</i>

EMRAH KALEMÇİ (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Physics</i>
Phone	<i>90 (216) 483 9614</i>
E-Mail	<i>ekalemci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/ekalemci</i>
Research Area Keywords	<i>High Energy Astrophysics, Black Holes, Astrophysical Instrumentation, Semiconductor Detectors, CubeSats.</i>
Current Research Activities	<i>My current research activities are concentrated on two areas, multiwavelength observations of galactic black hole systems and astrophysical instrumentation based on room temperature semiconductor detectors. I am interested in the conditions of the formation and destruction of jets and state transitions. I also study dust scattering halos around galactic black holes. I use CdZnTe based strip and pixellated crystals to design and produce detector systems for small satellites such as CubeSats. I am also interested in using these detectors as part of medical devices.</i>

SİBEL KASAP (TECHNICAL SPECIALIST)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9000/2409</i>
E-Mail	<i>skasap@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/skasap/</i>
Research Area Keywords	<i>Metal Oxide Nanoparticles, Adsorption, Statistical Design Methods, Nuclear Fuel Technology, Nuclear Waste Management, Nuclear Safety, Sol-Gel Method, Hydrothermal Method, Graphene, Chemical Vapor Deposition (CVD), Clean-Room.</i>
Current Research Activities	<i>Synthesis and Characterization of Transferable Graphene By Cvd Method For Using Display Application (Researcher), Investgation of adsorption capacity of 3D-graphene foam for radionuclides (TUBITAK 3501, Investigator).</i>

CENGİZ KAYA (DIRECTOR FOR RESEARCH AND GRADUATE POLICIES, PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9666</i>
E-Mail	<i>cengizkaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/cengizkaya</i>
Research Area Keywords	<i>Synthesis of Nanostructures, Nanotubes, Ceramic Composites, Coatings, Electrophoretic Deposition, Hydrothermal Synthesis, Biomaterials.</i>
Current Research Activities	<i>Boron carbide-reinforced polymer composites for shielding applications, development of SiC fibre-reinforced ceramic composites.</i>

İSMET İNÖNÜ KAYA (PART-TIME RESEARCHER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9591</i>
E-Mail	<i>iikaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~iikaya/</i>
Research Area Keywords	<i>Quantum Hall Effects, OLED.</i>
Current Research Activities	<i>Growth and electronic properties of graphene and 2D materials, development of OLED devices and displays, Quantum Hall effects, Quantum spin Hall effect, Nanoelectromechanical systems.</i>

GÜLLÜ KIZILTAŞ ŞENDUR (PART-TIME RESEARCHER)

Area	<i>Mechatronics Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9584</i>
E-Mail	<i>gkiziltas@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~gkiziltas/</i>
Research Area Keywords	<i>Topology Optimization, Multi-Disciplinary Optimization (MDO), Metamaterials, Computational Electromagnetics, Antenna Design, Finite Element Analysis, Design of Coupled Systems, Tissue Engineering, Micro-CT, Multi-Material Ceramic-Polymer Fabrication, Solid Free Form Fabrication.</i>
Current Research Activities	<i>Dr. Kiziltas Sendur's research theme centers on the design and fabrication of complex materials-based engineering systems for mechatronic, electromagnetic, and biomedical applications. Her research efforts focus on: 1) Topology optimization design methods for electromagnetic applications (in particular antennas and filters), and the design and fabrication of artificially engineered electromagnetic materials/metamaterials; 2) Development of multi-disciplinary optimization (MDO) methods for mechatronic systems in particular robotic systems; 3) Topology optimization and fabrication of bone scaffolds and micro-CT characterization for tissue engineering; 4) Finite element analysis-based optimal design of coupled engineering systems (in particular solid-fluid-electromagnetically coupled systems); and 5) Advanced fabrication of functionally graded ceramic-polymer composite materials in particular using extrusion, tape and freeze casting and 3D printing systems.</i>

BAHATTİN KOÇ (PART-TIME RESEARCHER)

Area	<i>Industrial Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9557</i>
E-Mail	<i>bahattinkoc@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/bahattinkoc/</i>
Research Area Keywords	<i>Computer-Aided Design and Manufacturing, Additive Manufacturing (3D Printing), Tissue/Organ Engineering, Nano/Micro-Scale Modeling and Manufacturing.</i>
Current Research Activities	<i>Dr. Koç's research interests include i) 3D bioprinting/ biomanufacturing for tissue and organ engineering; ii) computational geometry and optimization for additive manufacturing process; iii) heterogenous, multi-functional object modeling and manufacturing; iv) nano-micro additive manufacturing of composite materials; v) process planning and development for hybrid additive-subtractive processes. Dr. Koç's research goal is to develop novel integrated computational design and manufacturing strategies and techniques for geometrically and functionally complex parts for various applications in areas like biomedical engineering, medicine, consumer products, aerospace and automotive engineering.</i>

JAVED H. NIAZI KOLKAR (RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9879</i>
E-Mail	<i>javed@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/javed</i>
Research Area Keywords	<i>Biosensors, Aptamers, Lab-On-Chip, Nanotoxicology, Green Nanotechnology- Bioremediation.</i>
Current Research Activities	<i>Design and development of novel assays for; (a) biosensor applications for early warning and diagnosis of cancers, (b) employing synthetic affinity ligands as inhibitory drugs and for detecting disease biomarkers, nanotoxicology & green nanotechnology- bioremediation.</i>

ALİ KOŞAR (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACE AND INTERFACES, PART-TIME RESEARCHER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9621</i>
E-Mail	<i>kosara@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~kosara/</i>
Research Area Keywords	<i>Micro and Nano Scale Heat Transfer, Micro and Nano Flows, Boiling Heat Transfer, Cavitation, Microfluidics, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Koşar is one of few pioneers in the design and development of new generation micro heat sinks and microfluidic devices. His research interests constitute a spectrum covering heat and fluid flow on a micro/nano scale, forced convection, multi-phase flow, and cavitation. He aims at contributing to the literature by addressing the lack of information about micro/nano scale heat transfer and fluid flow and providing experimental data and design guidelines for futuristic cooling and microfluidic system technologies. He has broad experience and knowledge on various types of experiments on heat and fluid flow and phase change phenomena on the micro/nano scale. His research made significant contributions to the scientific knowledge in heat and fluid flow in the micro/nano domains. The results of his research have already generated many published journal research articles which have been published in prestigious journals like Microfluidics and Nanofluidics, Applied Physics Letters, Journal of Heat Transfer, Journal of Microelectromechanical Systems and the International Journal of Heat and Mass Transfer.</i>

ÖZLEM KUTLU (RESEARCHER)

Area	<i>Molecular Biology and Genetics</i>
Phone	<i>90 (216) 483 9000/2413</i>
E-Mail	<i>ozlemkutlu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozlemoral/</i>
Research Area Keywords	<i>Molecular Cell Biology, Human Genetic Disease, Cell Death Mechanisms, Nanomedicine.</i>
Current Research Activities	<i>Molecular Mechanism of Rare Human Genetic Disease, Drug Delivery Research with Biodegradable Nanoparticles.</i>

STUART JAMES LUCAS (RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9522</i>
E-Mail	<i>slucas@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/slucas/</i>
Research Area Keywords	<i>Plant Molecular Biology, Plant Biotechnology, Genomics, Bioinformatics, Host-Parasite Interactions.</i>
Current Research Activities	<i>Stuart Lucas brings experience ranging from immunology to plant molecular biology along with expertise in modern genomics techniques and data analysis to address contemporary issues for food security and sustainability. His current research is focused on using genomic approaches to solve problems facing the Turkish agriculture and food industries. This includes characterizing the genome and genetic variability of Turkish hazelnut varieties, in order to accelerate breeding for improved resistance to disease and climatic stresses. He is also interested in the identification and monitoring of genetically modified organisms (GMOs) in the food chain.</i>

YUSUF MENCELOĞLU (PART-TIME RESEARCHER)

Area	<i>Manufacturing Engineering / Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9535</i>
E-Mail	<i>yusufm@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yusufm/</i>
Research Area Keywords	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Florinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Florinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>

BURÇ MISIRLIOĞLU (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACE AND INTERFACES, VISITING RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9562</i>
E-Mail	<i>burc@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/burc/</i>
Research Area Keywords	<i>Ferroelectricity, Thin Films, Devices.</i>
Current Research Activities	<i>Ferroelectric Based Solid State Memory, Phase Transitions in Thin Films, Functionally Graded Structures, Nanomagnetism.</i>

CLEVA OW-YANG (PART-TIME RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9592</i>
E-Mail	<i>cleva@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/cleva</i>
Research Area Keywords	<i>Phosphors, Transmission Electron Microscopy, Optical Materials, Photovoltaics, Materials Characterization, Structure-Property Relationships, Thin Films, Interfaces, Thermodynamics, Phase Transformation.</i>
Current Research Activities	<i>Developing long afterglow in ceramic phosphors, nanotechnology in photovoltaics, applying advanced TEM techniques toward understanding structure-property relationships, effect of cooperative behavior and symmetry on material properties, thin film interfaces, phase transformation behavior, materials for sensors.</i>

BAŞAK ÖZATA (POSTDOCTORAL RESEARCHER)

Area	<i>Biosimilar Research</i>
Phone	<i>90 (216) 483 9000</i>
E-Mail	<i>ozata@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Biosimilar Drug, Drug Design and Analysis, Mass Spectrometry (LC-MS), Intact mAb, Peptide Mapping and Glycan Analysis.</i>
Current Research Activities	<i>Başak Özata is currently working on a project on development and analyzing biosimilar drug targeting cancer in collaboration with a drug company. The aim of the project is biochemical and functional characterization of biosimilar monoclonal antibody. She performs liquid chromatography and mass spectrometry analysis of the productions and prepares standard operating protocols for these analysis.</i>

HASAN ÖZKAYA (TECHNICAL STAFF)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9000/2409</i>
E-Mail	<i>hozkaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/hozkaya/</i>
Research Area Keywords	<i>OLED Displays, Graphene Growth and Characterization, GrapheneTransfer Methods, Gun Ballistic.</i>
Current Research Activities	<i>Graphene and ITO Based OLED Display Applications, Passive Matrix Display Design, Graphene Growth and Transfer Methods.</i>

ANJUM QURESHI (RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9000/2441</i>
E-Mail	<i>anjum@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/anjum</i>
Research Area Keywords	<i>Biosensors, Lab-On-Chip, Nanotox Sensors.</i>
Current Research Activities	<i>Detection of cardiac/cancer diseases biomarkers by electrochemical biosensors for disease diagnostic applications. Probing the cellular stress using bacterial lab-on-a-chip platform. Nanomaterial toxicity by electrochemical biosensor. Modification of polymer nanocomposites and nanomaterials by irradiation.</i>

MELTEM SEZEN (RESEARCHER)

Area	<i>Materials Science and Engineering, Electron Microscopy</i>
Phone	<i>90 (216) 483 9886</i>
E-Mail	<i>meltmsezen@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/meltmsezen/</i>
Research Area Keywords	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy (SEM), 3D Electron Tomography, Nanostructuring and Nanofabrication using Dual-Beam Platforms, Fabrication and Characterization of Organic Optoelectronic Devices, Advanced Electron Microscopy Applications for Dentistry and Food Engineering, Raman Microscopy and Spectroscopy, Hydrogen Storage Materials.</i>
Current Research Activities	<i>Nanofabrication using Focused Electron and Ion Beams, Electron Microscopy and Spectroscopy Based Characterization, Expertise in TEM Specimen Preparation via Dual-Beam Platforms, Development of Novel 3D TEM Sample Structuring Methodologies and Advanced FIB and TEM Tomography Applications for Nanoporous Materials (COST MP1103 Action), Development of Functional Surfaces on Polymeric Materials using Electron and Ion Beam (FEB-FIB) Modification (COST CM1301 Action), Advanced FIB/SEM and Raman Based Nanoanalysis Studies for Preventive Dentistry.</i>

TOLGA SÜTLÜ (RESEARCHER)	
Area	<i>Biological Sciences and Bioengineering</i>
Phone	<i>90 (216) 483 9887</i>
E-Mail	<i>tolgasutlu@sabanciuniv.edu</i>
Web	<i>http://www.sutlulab.com</i>
Research Area Keywords	<i>Cell Therapy, Gene Therapy, Immunotherapy.</i>
Current Research Activities	<p><i>The two defining themes of our laboratory are gene therapy and cancer immunotherapy. We strive to dwell into the basics of mammalian cell genetic modification processes and focus on the molecular mechanisms of viral gene delivery, with special reference on the innate immune responses against viral vectors. In parallel, we work on both the basic and preclinical aspects of genetically modified Natural Killer (NK) cells and NK cell-derived exosomes as well as the development of biosimilar monoclonal antibodies for cancer immunotherapy.</i></p> <p><i>More specifically, the aims of the research program in our laboratory are:</i></p> <p><i>To develop novel and more efficient approaches for the ex vivo genetic modification of human cells in order to facilitate practical and low-cost clinical trials of gene therapy.</i></p> <p><i>To investigate the feasibility and the potential efficiency genetically modified NK cells and NK cell-derived exosomes in the treatment of cancer.</i></p> <p><i>To develop a platform for detailed biochemical and functional characterization of biosimilar monoclonal antibodies.</i></p>

KÜRŞAT ŞENDUR (PART-TIME RESEARCHER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9527</i>
E-Mail	<i>sendur@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/sendur/</i>
Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current research activities include nano-optical transducers, heat assisted magnetic recording, near-field optics, electromagnetics, near-field radiative heat transfer, nano-antennas, modeling, design and manufacturing of nano-optical systems.</i>

YILMAZ ŞİMŞEK (RESEARCHER)

Area	<i>Physics-based Materials Science</i>
Phone	<i>90 (216) 568 7926</i>
E-Mail	<i>ysimsek@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Experimental Condensed Matter Physics, Materials Science, Superconducting and Magnetic Materials, High Temperature Superconductivity, Josephson Junction-Based Devices, THz-on-a-chip, Superconducting Qubits.</i>
Current Research Activities	<i>Design, synthesis and characterization of ferromagnetic insulator-based Josephson junctions for quantum computing applications, Developing an up-scalable THz lab-on-a-chip with integrated multi-electronic component by synthesizing thick epitaxial films of layered high-Tc superconducting film.</i>

İBRAHİM TEKİN (PART-TIME RESEARCHER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9534</i>
E-Mail	<i>tekin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/tekin/</i>
Research Area Keywords	<i>Microwave and Millimeter Wave Active/Passive Circuit and Antenna Design, Millimeter Wave Systems, Full Duplex/MIMO Radio and Antennas, Antenna Design, RF Circuit Design, GPS-based Positioning.</i>
Current Research Activities	<i>Millimeter wave antennas and LNA, phase shifters – 75-110 GHz Millimeter wave arrays and beam steering for 5G 77 GHz automotive radar receiver front-ends RFIC on-chip antenna implementation/simulation and measurements Wide band antennas for 5G full-duplex communications Millimeter wave active and MEMS based phase shifters Multiport antennas Indoor GPS-positioning.</i>

HAYRİYE ÜNAL (RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9000/2442</i>
E-Mail	<i>hunal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>DNA Nanobiotechnology, Nucleic Acid-Nanoparticle Interactions, Fluorescent Labeling of Nanoparticles, Fluorescent Sensors, Antibacterial Nanoparticles, Antibacterial/Antibiofilm Surfaces, Active Food Packaging Materials, Antibacterial Food Packaging Materials, Food Safety.</i>
Current Research Activities	<i>Preparation and characterization of hybrid DNA-carbon nanotube nanostructures, Fluorescent labeling of carbon nanotubes with DNA nanostructures, Development of safe and active food packaging materials, Preparation of antibacterial and antibiofilm surfaces, Utilization of photothermal agents for killing of bacteria and eradication of biofilms.</i>

FAZİLET VARDAR SUKAN (SUNUM DIRECTOR)	
Area	<i>Bioengineering</i>
Phone	<i>90 (216) 483 9884</i>
Fax	<i>90 (216) 483 9885</i>
E-Mail	<i>faziletvardar@sabanciuniv.edu</i>
Web	<i>http://www.sabanciuniv.edu/en/sudirectorystaffdetay/3098</i>
Research Area Keywords	<i>Mass and Momentum Transfer and Scale – up in Bioreactors, Foaming and Its Control in Bioprocesses, Re-utilisation of Agro-industrial Wastes and Surpluses for the Production of High Added Value Materials Through Bio-industries, Microalgal Production, and R&D&I Management and Support.</i>
Current Research Activities	<p><i>Production, Purification and Characterization of Keratinase, Production and Recovery of Bioethanol, Biosurfactants, Bioactive Secondary Metabolites; Biohydrogen production from model microalgae, Integrated bio proceses.</i></p> <p><i>Dr. Vardar-Sukan is the Director of SUNUM Nanaotechnology Research and Application in Sabancı University. She also currently holds the positions of vice president of Administrative Board of Ege Technopark, vice president of USIMP Executive Board, Coordinator of EBIC-Ege (Enterprise Europe Network). She is also a member of EPO Academy Advisory Board (European Patent Office) and represents Turkey on ATTP Board (Alliance of Technology Transfer Professionals), AUTM International Committee (Association of University Technology Managers), ASTP-NAAC (Association of Science and Technology Professionals National Associations Advisory Committee) and EuKTS Board (European Knowledge Transfer Society).</i></p> <p><i>She is a Registered Technology Transfer Professional (RTTP) and the holder of 1989 Turkish Scientific and Technological Council Incentive award in Bioengineering.</i></p>

CENK YANIK (TECHNICAL SPECIALIST)

Area	<i>Experimental Condensed Matter & Semiconductor Device Physics</i>
Phone	<i>90 (216) 483 99 94</i>
E-Mail	<i>cenkyanik@sabanciuniv.edu</i>
Web	<i>https://sunum.sabanciuniv.edu/cenk-yanik/</i>
Research Area Keywords	<i>Micro & Nano Fabrication, Low Temperature Physics, Quantum Hall Effect, Graphene Electronics.</i>
Current Research Activities	<i>Quantum Transport Device Applications, Photonic Wave Guide and Plasmonic Device Fabrications, Nanoelectromechanical Device Applications for Single Molecule Mass Detection, Buckling-based DC controlled non-volatile nanoelectromechanical logic memory.</i>

MURAT KAYA YAPICI (PART-TIME RESEARCHER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9553</i>
E-Mail	<i>mkyapici@sabanciuniv.edu</i>
Web	<i>http://mems.sabanciuniv.edu/</i>
Research Area Keywords	<i>Microelectromechanical System (MEMS), Micromachining and Micro/Nanofabrication Technologies, Micro Sensors and Actuators, Semiconductor Process Technologies, Scanning Probe-based Nanotechnology and Nanomanufacturing, Biomedical Microsystems and Devices, Microfluidic Systems, MEMS-CMOS, and Nanomaterial Integration.</i>
Current Research Activities	<p><i>At Sabanci University Micro/Nano Systems & Devices Lab (SU-MEMS), we employ our broad expertise in micro/nanofabrication technologies and develop miniaturized devices, sensors & actuators in an effort to solve interdisciplinary problems in biomedical sciences, electronics, and nanotechnology.</i></p> <p><i>We have four research AREAs:</i></p> <p><i>Micro/Nano Electro Mechanical Systems (M/NEMS), Micro Sensors and Actuators</i></p> <p><i>Novel Micro/Nanofabrication Techniques, Scanning Probe-based Nanotechnology</i></p> <p><i>Biosensors, Biomedical Microsystems, Devices, and Microfluidic Systems</i></p> <p><i>Electronic Devices, CMOS-MEMS Nanomaterial (e.g. graphene) Integration.</i></p>

BEGÜM YARAR KAPLAN (TECHNICAL SPECIALIST)

Area	<i>Chemistry / Material Science and Engineering</i>
Phone	<i>90 (216) 483 9000/2412</i>
E-Mail	<i>begumyayar@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/begumyayar/</i>
Research Area Keywords	<i>Renewable Energy, Energy Materials, PEM Fuel Cells, Proton-Exchange Membranes, Electrochemistry, Electrode Design, Catalyst Synthesis, Electrospinning, Conductive Polymers.</i>
Current Research Activities	<i>Development of Graphene Based Electrodes for PEM Fuel Cells, Carbon Based Materials for Fuel Cell Electrodes, Nano-Composite Electrode and Membrane Structures via Electrospinning, PEM Fuel Cell Test Design.</i>

SERHAT YEŞİLYURT (PART-TIME RESEARCHER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9579</i>
E-Mail	<i>syesilyurt@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/syesilyurt/</i>
Research Area Keywords	<i>Heat Transfer, Fluid Flows, Swimming In Micro Scales, Renewable & Sustainable Energy Systems.</i>
Current Research Activities	<i>Multi-phase transport and deformation of porous media and applications to PEM Fuel Cells, efficient swimming of organisms and artificial structures in micro scales inside channels and conduits, simulations and experiments for design and navigation of artificial structures in conduits, design and aerodynamic optimization of vertical axis wind turbines.</i>

MERAL YÜCE (RESEARCHER)

Area	<i>Molecular Biology, Genetics and Bioengineering / Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9000/2405</i>
E-Mail	<i>meralyuce@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/sudirectorystaffdetay/2026</i>
Research Area Keywords	<i>Biosensors, Nanomaterials, Aptamers.</i>
Current Research Activities	<i>Selection of target-specific synthetic oligonucleotides from combinatorial libraries, employment of target-specific synthetic oligonucleotides in optic, plasmonic and electrochemical sensing platforms, surface modification of nanomaterials for biotechnology applications.</i>

ALP YÜRÜM (RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9000/2404</i>
E-Mail	<i>ayurum@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/sudirectorystaffdetay/1990</i>
Research Area Keywords	<i>Energy Storage, Li-ion Batteries, Li-air Batteries, Hydrogen Storage, Metal Nanoparticles, Metal Oxide Nanoparticles, Zeolites, Carbon, Graphene.</i>
Current Research Activities	<i>Anode Development For High Capacity Li-Ion Batteries With Prolonged Life-Cycle; Development Of Effective Catalysts For Li-air batteries; Hydrogen Storage With Graphene/ Metal Oxide Nano Particle Composites; Water Treatment Using Semiconductor Photocatalysts, Membranes, and High Surface Area & Porous Adsorbents; Carbon Based Materials Characterization and Coal Chemistry; Development of High Surface Area Zeolites For Water Treatment, Energy, and Sensors.</i>

ALİ ZARRABI (RESEARCHER)

Area	<i>Biomedical Science and Engineering, Nanomedicine</i>
Phone	<i>90 (216) 568 7924</i>
E-Mail	<i>alizarrabi@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/alizarrabi</i>
Research Area Keywords	<i>Nanomedicine, Drug Delivery Systems, Theranostics, Cancer, Neurodegenerative Disease.</i>
Current Research Activities	<i>Graphene platforms for simultaneous diagnosis and treatment Smart polymeric nanoparticles Nanotheranostics in cancer therapy Green synthesis of nanoparticles.</i>

DENİZ UĞUR (TECHNICAL SPECIALIST)

Area	<i>Biomaterial Design and Surface Characterization</i>
Phone	<i>90 (216) 483 7909</i>
E-Mail	<i>denizugur@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Polymer Chemistry, Monomer Design, Macromolecular Interactions, Particle Formulation and Characterization, Chemical Surface Imaging, Biomaterial Surface Functionalization, Surface Chemistry, Protein-polymer Interfacial Interactions, Tissue Engineering, Stem Cell- Biomaterial Interactions.</i>
Current Research Activities	<i>Protein / bioproduct diafiltration.</i>

SELİM TANRISEVEN (TECHNICAL SPECIALIST)

Area	<i>Physics</i>
Phone	<i>90 (216) 568 7904</i>
E-Mail	<i>selimtanriseven@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Quantum Dot Devices, MicroLEDs, Lasers.</i>
Current Research Activities	<i>Photonic Crystals, Plasmonics.</i>

ALİ OSMAN ÇETİNKAYA (TECHNICAL SPECIALIST)

Area	<i>Physics</i>
Phone	<i>90 (216) 568 7905</i>
E-Mail	<i>aliosmancetinkaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>MEMS, Optoelectronics, Nanophotonics, Radiation Detectors, MOS-MOSFETs, LDs, LEDs, Semiconductor Growth and Fabrication.</i>
Current Research Activities	<i>MEMS, Optoelectronics, Nanophotonics, Semiconductor Devices.</i>



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FOR ENERGY AND CLIMATE

SELMİYE ALKAN GÜRSEL (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9573</i>
E-Mail	<i>selmiye@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/~selmiye/</i>
Research Area Keywords	<i>Fuel Cells, Proton-Exchange Membranes, Graphene, Radiation-Induced Grafting, Lithium-ion Batteries, Artificial Muscles, Conducting Polymers.</i>
Current Research Activities	<i>Synthesis & Characterization of Proton Exchange Membranes for Fuel Cells, Graphene-based Electrodes & Catalyst Supports for Fuel Cells, Radiation-induced Grafting, Micro-Nanomaterials for Artificial Muscles, Electrodes and Electrolytes for Lithium-ion Batteries, Electrochemical Synthesis & Characterization of Conducting Polymers.</i>

MAHMUT FARUK AKŞİT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9598</i>
E-Mail	<i>aksit@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~aksit/</i>
Research Area Keywords	<i>Advanced Seals, Tribology: Friction, Wear & Lubrication; Gas, Steam, Wind & Hydro Turbines; Taguchi Robust Design.</i>
Current Research Activities	<i>Wind Turbines: design and development of large industrial wind turbine structures, tuned mass tower damping systems. Advanced Seals: oil-free foil bearings for gas turbine applications, use of foil bearings as engine seals. Development of high temperature compact actuators for gas turbine shroud applications. Design of unmanned aerial vehicle structures. Tribopair characterization for hermetic compressor bearings under Iso-buthane atmosphere.</i>

ALİ RANA ATILGAN (FACULTY MEMBER)

Area	<i>Industrial Engineering / Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9525</i>
E-Mail	<i>atilgan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/atilgan/</i>
Research Area Keywords	<i>Biological Physics and Systems Science.</i>
Current Research Activities	<i>We identify interactions in biological and social systems and trace their communication pathways on different time and length scales. We parse out the relationships between local motifs and global patterns in complex networks. These activities find technological applications in devising molecular machines and system identification tools.</i>

İZAK ATİYAS (DIRECTOR FOR TUSIAD, SABANCI UNIVERSITY COMPETITIVENESS FORUM, FACULTY MEMBER)

Area	<i>Economics / European Studies / Public Policy</i>
Phone	<i>90 (216) 483 9241</i>
E-Mail	<i>izak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/izak/</i>
Research Area Keywords	<i>Industrial Organization; Regulation of Network Industries; Political Economy.</i>
Current Research Activities	<i>My current research areas are competition law and policy, regulation in telecommunications and electricity industries, and privatization. In the field of competition law, I am currently conducting a TUBITAK-sponsored Project on the Examination of Competition Board Decisions from the Perspective of Law and Economics. The decisions of the Competition Board are examined with two objectives in mind: the first is to evaluate the extent and sophistication of economic analysis they contain. The second is to compare them with the decisions undertaken in the application of competition law in the European Union. In the field of regulation, I am studying the interaction between ex-ante regulation and ex-post enforcement of competition law in the telecommunications industry. In electricity regulation, I am writing a paper on the general assessment of restructuring in the electricity industry in Turkey. In privatization, I have recently published a book chapter on the assessment of the recent privatization experience in Turkey.</i>

ERDAL AYDIN (FACULTY MEMBER)

Area	<i>Economics</i>
Phone	<i>90 (216) 483 9322</i>
E-Mail	<i>erdalaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Energy Policy, Sustainability in Real Estate Sector, Economics of Energy Efficiency, Green Energy Technologies, Residential Energy Demand, Household Behavior.</i>
Current Research Activities	<p><i>Estimating the rebound effect in the residential sector.</i></p> <p><i>Energy labels and capitalization of energy efficiency in the housing market.</i></p> <p><i>The impact of building standards and mandatory energy labeling policies on residential energy consumption across Europe.</i></p> <p><i>Impact of smart meters on household energy consumption: evidence from a field experiment.</i></p> <p><i>The economics of residential solar water heaters in emerging economies: the case of Turkey.</i></p> <p><i>Energy efficiency premium in the rental housing market: evidence from the Netherlands.</i></p> <p><i>Split incentives between landlords and tenants for energy efficiency investments: evidence from the Dutch housing market.</i></p> <p><i>The impact of building energy labels on time and on the market</i></p> <p><i>Impact of subsidy policies on the adoption of solar panels: evidence from a natural experiment.</i></p>

FEVZİ ÇAKMAK CEBECİ (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9877</i>
E-Mail	<i>fccebeci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/fccebeci/</i>
Research Area Keywords	<i>Corrosion, Electrochemistry, Energy Storage, Materials Chemistry, Mechanical Behavior of Materials, Nanotechnology, Polymers, Thin Films.</i>
Current Research Activities	<i>Dr. Cebeci's research currently focuses on designing hybrid supercapacitors with vertically aligned carbon nanotubes as an active electrode component and conducting polymer as a redox-active component; new electrode materials for lithium-ion batteries based on carbon nanofibers and carbon nanotubes; polyelectrolyte and nanoparticle thin films prepared by a layer-by-layer technique for corrosion protection; and nanofiber based nanocomposites for artificial muscle applications.</i>

CARMINE DIFIGLIO (IICEC DIRECTOR, FACULTY MEMBER)

Area	<i>Energy Policy, Oil and Natural Gas Markets, Technology, Modeling</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>carminedifiglio@sabanciuniv.edu</i>
Web	<i>http://iicec.sabanciuniv.edu</i>
Research Area Keywords	<i>Energy Security, the International Oil Market, Fuel Efficiency, Alternative Energy, the Electric Power Sector, Pathways to Lower GHG Emissions.</i>
Current Research Activities	<i>In line with IICEC's mission, Professor Difiglio oversees the development of economic and policy studies to develop solutions for a sustainable energy future. Difiglio's own energy research includes a variety of topics such as energy security, the international oil market, fuel efficiency, alternative energy, the electric power sector, and pathways to lower GHG emissions. Difiglio personally developed a variety of "engineering-economic" models to estimate the impacts of energy and climate policies including, among others, motor vehicle fuel-economy standards, requirements to use low-carbon fuels, and initiatives to reduce power-sector emissions. In addition, he launched a large project at the International Energy Agency to determine what clean energy technologies can best meet global climate goals. Difiglio is also an expert on the international oil market and has authored research to show how oil price volatility threatens economic growth and developed policies to improve global oil security.</i>

UMUT EKMEKÇİ (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9597</i>
E-Mail	<i>umutekmekci@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/umutekmekci</i>
Research Area Keywords	<i>Design and Implementation of Innovation Systems, University-Industry Collaborations, Collective Creativity and Innovation Communities, Innovation Management in Energy Sector.</i>
Current Research Activities	<i>Designing Components of Corporate Innovation Systems.</i>

DANIAL ESMAELIALIABADI (IICEC, SENIOR RESEARCH ANALYST)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (212) 292 4939/1115</i>
E-Mail	<i>daniel@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/danialesm/</i>
Research Area Keywords	<i>Energy System Modeling, Game Theory, Operations Research, Soft Computing, Agent-based Modeling & Simulation, Artificial Intelligence, Data Mining.</i>
Current Research Activities	<i>Dr. Esmaeili develops and manages the IICEC-Sabancı University TIMES Energy Model (ISTEM), which is a comprehensive bottom-up technology-oriented energy model of Turkey and the surrounding regions. By using ISTEM, policymakers will be able to monitor and analyze the long-run impacts of policies and technologies, and use these outcomes to guide energy-sector investment decisions. Prior to the ISTEM project, Dr. Esmaeili developed multiple simulation models of oligopolistic markets to analyze the strategic (bidding) behavior of power generation companies. He is particularly interested to study the learning process of key players. Dr. Esmaeili is also actively doing research on the applicability and profitability of carbon capture, utilization and storage strategies in the Turkish power sector.</i>

AHMET EVİN (EMERITUS PROFESSOR)

Area	<i>European Studies / Political Science</i>
Phone	<i>90 (216) 483 9230</i>
E-Mail	<i>aevin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aevin/</i>
Research Area Keywords	<i>Turkish and Comparative Politics; Theories of the State; the European Union and Its Enlargement.</i>
Current Research Activities	<i>Evin's research has centered on cultural contexts of political change, in particular the theory of the state and development of democracy as a form of state. As a Jean Monnet Professor, he has worked on policy issues relating to European enlargement and the EU's eastern partnership, their significance for Turkey and the region, as well as their effect on transatlantic relations. His research as a former senior fellow of the Transatlantic Academy focused on Turkey's foreign and energy policy in the context of Europe's energy supply security and its transatlantic implications. As a member of the Advisory Board and senior fellow of Institute of Advanced Studies-Közseg, his research focuses on current developments in Central Europe and Southeastern Europe. His more recent research interests on the "Future of the Liberal Order," has resulted in three reports, the most recent of which is "The Sliding West: Populism and Religion as Challenges to the Liberal Order" (coauthored with Megan Gisclon, published by IPC in July 2016). His most recent book "Turkey and the EU: Energy, Transport and Competition Policies" was published in the European Energy Studies Series by Claeys & Casteels (2016). Since 2017, he has taken up, as a sequel to the future of the 'Liberal Order', research on Eurasia in the context of which an initial roundtable conference was organized at DGAP, the report of which was published by IPC in 2018.</i>

MEHMET ALİ GÜLGÜN (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9536</i>
E-Mail	<i>m-gulgun@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/m-gulgun</i>
Research Area Keywords	<i>Ceramics, Electron Microscopy and Spectroscopy, Ion Conductors, Fuel Cells, Batteries, Cementitious Materials, and Oxide Synthesis.</i>
Current Research Activities	<p><i>The research activities of our group lie in four major areas: I. microstructural engineering through sintering, densification and grain growth in functional polycrystalline ceramics; II. fast ion-transporting materials for fuel cells, solar cells, Li-Ion batteries, and conventional wet batteries; III. synthesis of oxide ceramics with tailored optical properties for phosphorescent or thermochromic applications; IV. finding a more environmentally friendly low-temperature production alternative for cementitious materials in severe environments, including construction materials for space-explorations.</i></p> <p><i>In our research activities, we use electron microscopy and spectroscopy extensively to unveil the origins of material behaviour.</i></p>

BORA ŞEKİP GÜRAY (IICEC DIRECTOR OF RESEARCH)

Area	<i>Energy Markets, Energy Strategies, Energy Technology, Energy Efficiency</i>
Phone	<i>90 (212) 292 49 39</i>
E-Mail	<i>bsguray@sabanciuniv.edu</i>
Web	<i>http://iicec.sabanciuniv.edu</i>
Research Area Keywords	<i>Energy Strategies, Power Markets, Natural Gas Markets, Energy Technology, Energy Efficiency, Sustainability.</i>
Current Research Activities	<i>Bora Şekip Güray leads the research related activities of IICEC in close collaboration and dialogue with key stakeholders and oversees research studies for a more secure, efficient and competitive energy system that includes pathways for a sustainable energy future. Güray is in charge of development of the Turkey Energy Outlook Study and IICEC TIMES Energy Model, which is a holistic representation of an energy system from primary energy supply until final energy demand with technology detail for Turkey and the wider region. His own research includes power markets, natural gas markets, energy investments, energy security and sustainability, energy efficiency analyses and broader energy ecosystem, including various stakeholders such as policy makers, industry and energy market actors. In his previous roles in public and private sectors in the field of energy, he was involved in several projects regarding energy policy, energy market design, energy security, energy investments as well as asset development, management and optimization.</i>

SERAP HAYAT SOYTAŞ (RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9000/2443</i>
E-Mail	<i>seraphayat@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/seraphayat</i>
Research Area Keywords	<i>Energy, Metal-ion Batteries, Fuel Cells, Electrospinning, Carbon Nanofibers, Polymer Synthesis and Characterizations, Living/Controlled Polymerizations, Polymer Structure-Property Relationships.</i>
Current Research Activities	<i>Development of high-capacity anode materials for metal-ion batteries, Development of catalyst/electrodes for PEM fuel cells, Synthesis of CNF-metal hybrid structures for energy storage/conversion, Synthesis of organic/inorganic hybrid polymers, Development of nanofiber/natural clay/antibacterial nanocomposites via green electrospinning for biomedical and food packaging applications.</i>

GÖZDE İNCE (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9878</i>
E-Mail	<i>gozdeince@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/gozdeince/</i>
Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication and Characterization of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our current research focuses on stimuli-responsive polymer thin-films and nanostructures. We develop different types of stimuli-responsive polymers and study their response behavior under different conditions. In addition to these fundamental studies, we also fabricate thin-films and polymer nanostructures with optimized response characteristics for various applications, including drug-delivery, biological sensors, responsive coatings and separation membranes.</i>

İSMET İNÖNÜ KAYA (FACULTY MEMBER)

Area	<i>Physics</i>
Phone	<i>90 (216) 483 9591</i>
E-Mail	<i>iikaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~iikaya/</i>
Research Area Keywords	<i>Quantum Transport, Nanoelectronics, Graphene, 2D Materials, Quantum Hall Effects, OLED.</i>
Current Research Activities	<i>Growth and electronic properties of graphene and 2D materials, development of OLED devices and displays, Quantum Hall effects, Quantum spin Hall effect, Nanoelectromechanical systems.</i>

MURAT KAYA (FENS VICE DEAN FOR EDUCATION, FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9622</i>
E-Mail	<i>mkaya@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/mkaya/</i>
Research Area Keywords	<i>Supply Chain Management, Decision Analysis, Behavioral Operations Management, Energy and Electricity Supply Chains.</i>
Current Research Activities	<i>Dr. Kaya's research is concerned with strategic decision analysis in supply chains. In addition to building analytical models of decision making, he also studies the related behavioral issues through experiments with human decision makers. Having worked with traditional supply chains (including apparel, FMCG, and pharma), Dr. Kaya's recent interest is directed towards electricity/energy supply chains. In particular, he is developing models for electricity load and price forecasting, and for studying the competitive behavior of generation companies. Dr. Kaya is also involved in integrated energy systems modeling.</i>

KEMAL KILIÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9596</i>
E-Mail	<i>kkilic@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/kkilic/</i>
Research Area Keywords	<i>Data Mining, Decision Support Systems, Heuristic Search and Optimization Techniques, Innovation Management, Health Informatics.</i>
Current Research Activities	<i>Dr. Kilic currently works on Digital Transformation with a particular focus in application of data science techniques as part of the decision-making process in operations. He also works on maturity assessment of SMEs and developing strategies/road maps for their digitalization journey.</i>

**ALİ KOŞAR (CO-DIRECTOR FOR CENTER OF EXCELLENCE
FOR FUNCTIONAL SURFACES AND INTERFACES,
FACULTY MEMBER)**

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9621</i>
E-Mail	<i>kosara@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~kosara/</i>
Research Area Keywords	<i>Micro and Nano Scale Heat Transfer, Micro and Nano Flows, Boiling Heat Transfer, Cavitation, Microfluidics, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Kosar is one of few pioneers in the design and development of new generation micro heat sinks and microfluidic devices. His research interests constitute a spectrum covering heat and fluid flow in micro/nano scale, forced convection, multi-phase flow, and cavitation. He aims at contributing to the literature by removing the lack of information about micro/nano scale heat transfer and fluid flow and providing experimental data and design guidelines for futuristic cooling and microfluidic system technologies. He has broad experience and knowledge on various types of experiments on heat and fluid flow and phase change phenomena in micro/nano scale. His research made significant contributions to the scientific knowledge in heat and fluid flow in micro/nano domains. The results of his research have already generated many published journal research articles which have been published in prestigious journals like Microfluidics and Nanofluidics, Applied Physics Letters, Journal of Heat Transfer, Journal of Microelectromechanical Systems and International Journal of Heat and Mass Transfer.</i>

YUSUF MENCELOĞLU (FACULTY MEMBER)

Area	<i>Materials Science and Nanoengineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9535</i>
E-Mail	<i>yusufm@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/yusufm/</i>
Research Area Keywords	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Florinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Florinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>

BURÇ MISIRLIOĞLU (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9562</i>
E-Mail	<i>burc@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/burc/</i>
Research Area Keywords	<i>Ferroelectricity, Thin Films, Devices.</i>
Current Research Activities	<i>Ferroelectric Based Solid State Memory, Phase Transitions In Thin Films, Functionally Graded Structures, Nanomagnetism.</i>

AHMET ONAT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9538</i>
E-Mail	<i>onat@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~onat</i>
Research Area Keywords	<i>Networked Control Systems, Real-Time and Embedded Systems, Real-Time Communication, Linear Synchronous Motor Design Implementation and Control, Linear Motor Vertical Applications, Automatic Control, Fault Diagnosis. Previously: Artificial Intelligence, Learning Algorithms, and Artificial Neural Networks.</i>
Current Research Activities	<p><i>Dr. Onat is currently working on the following AREAs:</i></p> <p><i>Networked control systems: Networked control systems, where the sensors, controller and actuators of a digital controller reside on different computer nodes linked by a communications network, aim to overcome the disadvantages of conventional digital control systems, such as difficulty of modification, vulnerability to electrical noise, difficulty in maintenance and upgrades, at the application level. However, data delay and loss on the network may destabilize the plant. We have proposed a novel networked control method where satisfactory control is possible even under random delay and data loss by referring to a model of the plant to predict states of the plant under such conditions. The proposed method has good performance compared to other methods.</i></p> <p><i>Design of synchronous linear motors for vertical applications: Vertical applications place high demands on the design of linear motors because the magnetic circuit must enable high thrust to weight ratio while realizing high efficiency, low force ripple, while maintaining ease and low cost of manufacturing, maintainance and lifespan.</i></p> <p><i>We have designed and built linear motors that satisfy these requirements and proposed a composite design optimization method based on nonlinear magnetic modeling and finite element analysis. Theoretical studies and simulations have been backed by full scale vertical linear motor prototypes capable of 150-450kgf net lift capability at speeds up to 2.5m/s with regular supply voltages. The research is funded by a Japanese world leader company in elevators.</i></p>

Current Research Activities	<i>Remote fault detection and prognosis for commercial vehicles: Work on this AREA with collaboration from a manufacturer has been carried out where new methods of fault diagnosis and recovery have been proposed, enabling auto makers to foresee some of the impending failures on customer vehicles in the field.</i>
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CLEVA OW-YANG (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9592</i>
E-Mail	<i>cleva@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/cleva</i>
Research Area Keywords	<i>Phosphors, Transmission Electron Microscopy, Optical Materials, Photovoltaics, Materials Characterization, Structure-Property Relationships, Thin Films, Interfaces, Thermodynamics, Phase Transformation.</i>
Current Research Activities	<i>Developing long afterglow in ceramic phosphors, nanotechnology in photovoltaics, applying advanced TEM techniques toward understanding structure-property relationships, effect of cooperative behavior and symmetry on material properties, thin film interfaces, phase transformation behavior, materials for sensors.</i>

VOLKAN ÖZGÜZ (RECTOR CONSULTANT, FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9834</i>
E-Mail	<i>vozguz@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/</i>
Research Area Keywords	<i>Microelectronics and Nanotechnologies, 3D Integration and Packaging, Microsystems and Nano Systems, Integration of Heterogeneous Systems.</i>
Current Research Activities	<i>Integration of 3D technologies and nanotechnologies, low power system implementation using 3D integration and nanoelectronics, nano to micro and macro interfaces and Nano-Packaging, miniaturization for wearable implantable biomedical systems; cognitive systems using neuromorphic approaches, memory-augmented processing for high productivity computing and communication.</i>

MELTEM SEZEN (RESEARCHER)

Area	<i>Materials Science and Engineering / Electron Microscopy</i>
Phone	<i>90 (216) 483 9886</i>
E-Mail	<i>meltemsezen@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/meltemsezen/</i>
Research Area Keywords	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy (SEM), 3D Electron Tomography, Nanostructuring and Nanofabrication using Dual-Beam Platforms, Fabrication and Characterization of Organic Optoelectronic Devices, Advanced Electron Microscopy Applications for Dentistry and Food Engineering, Raman Microscopy and Spectroscopy, Hydrogen Storage Materials.</i>
Current Research Activities	<i>Nanofabrication using Focused Electron and Ion Beams, Electron Microscopy and Spectroscopy Based Characterization, Expertise in TEM Specimen Preparation via Dual-Beam Platforms, Development of Novel 3D TEM Sample Structuring Methodologies and Advanced FIB and TEM Tomography Applications for Nanoporous Materials (COST MP1103 Action), Development of Functional Surfaces on Polymeric Materials using Electron and Ion Beam (FEB-FIB) Modification (COST CM1301 Action), Advanced FIB/SEM and Raman Based Nanoanalysis Studies for Preventive Dentistry.</i>

ASİF ŞABANOVIÇ (EMERITUS PROFESSOR)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9529</i>
E-Mail	<i>asif@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/asif/</i>
Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently projects micro-part manipulation, bilatlar control with variable time delay, design and control of flexure based nano-positioners, software for reconfigurable real time motion control systems, hierarchy and dynamical decoupling in multi-body motion control systems are under way.</i>

GÜVENÇ ŞAHİN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9619</i>
E-Mail	<i>guvencs@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/guvencs/</i>
Research Area Keywords	<i>Transportation and Distribution Planning, Scheduling and Sequencing, Network Design and Flow, Heuristic Algorithms, Linear Integer Programming.</i>
Current Research Activities	<i>Transportation Crew Planning, Line Planning in Urban Transportation, Operations in Electricity Markets, Vehicle Routing Problems, Airport Operations Planning, Reverse/Spare-parts Logistics Network Design.</i>

KÜRŞAT ŞENDUR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9527</i>
E-Mail	<i>sendur@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/sendur/</i>
Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current research activities include nano-optical transducers, heat assisted magnetic recording, near-field optics, electromagnetics, near-field radiative heat transfer, nano-antennas, modeling, design, and manufacturing of nano-optical systems.</i>

MEHMET DOĞAN ÜÇÖK (IICEC PROJECT COORDINATOR)

Area	<i>National and International Security Strategies / Geopolitics of Energy Security</i>
Phone	<i>90 (212) 292 4939</i>
E-Mail	<i>mdoganucok@sabanciuniv.edu</i>
Web	<i>http://iicec.sabanciuniv.edu/contact</i>
Research Area Keywords	<i>National and International Security Strategies, Geopolitics of Energy Security, Foreign Policy, Diplomacy and Strategy Formation.</i>
Current Research Activities	<i>International Political-Economy of Energy Security, Climate Change & World-wide Effects, Shale Gas and Shale Oil in and outside US, Energy Import Bills in the Current Account Deficit of Turkey, Geopolitics of Energy Security.</i>

FÜSUN ÜLENGİN (FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9680</i>
E-Mail	<i>fulengin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/fulengin/</i>
Research Area Keywords	<i>Multiobjective Evaluation of Macrosystems in General, Transportation and Logistics Systems, Multi-Attribute and Group Decision-Making Models, Decision Support Systems, Bayesian Causal Maps, Neural Networks.</i>
Current Research Activities	<i>Her recent publications have appeared in a variety of SCI and SSCI journals including Omega, Journal of the Operations Research Society, Socio-Economic Planning Sciences, European Journal of Operational Research, Transportation Research-E, Transportation Research-C, Journal of Production Economics, European Journal of Marketing, The Service Industries Journal, Interfaces, Expert Systems with Applications etc. Currently she is in the Editorial Board of "Transportation Policy" and "Case Studies in Transport Policy" journals. She is the member of the Scientific and Steering Committees of World Conference of Transportation Research Society (WCTRS). Recently, she has been re-appointed as the Scientific Committee Chair responsible of conferences for WCTRS. She is currently the vice-chair of the WCTRS and the advisor of the Transportation and Logistics sector in the Turkish Union of Chambers and Commodity Exchanges (TOBB).</i>

SERKAN ÜNAL (RESEARCHER)

Area	<i>Chemistry / Material Science and Engineering</i>
Phone	<i>90 (216) 483 9996</i>
E-Mail	<i>serkanunal@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/serkanunal</i>
Research Area Keywords	<i>Polymer Chemistry, Polymer Synthesis and Characterization, Structure-Property Relationships In Polymeric Materials, Functional and Branched Polymers, Polymer Emulsions and Dispersions, Polyurethane Chemistry, Surface Coatings, Adhesives, Thermosets, Membranes, Carbon Nanomaterials, Hybrid and Multifunctional Nanomaterials, Structural Composites, Nanocomposites, Lithium Ion Battery Electrodes.</i>
Current Research Activities	<i>Synthesis of waterborne polyurethane dispersions for functional coating and adhesive applications, polymeric nanofiltration and reverse osmosis membranes for water purification and desalination applications, hybrid nanomaterials for water purification, multi-functional nanomaterials for structural composites, hybrid nanomaterials for energy storage and conversion applications.</i>

SERHAT YEŞİLYURT (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9579</i>
E-Mail	<i>syesilyurt@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/syesilyurt/</i>
Research Area Keywords	<i>Heat Transfer, Fluid Flows, Swimming in Micro Scales, Renewable & Sustainable Energy Systems.</i>
Current Research Activities	<i>Multi-phase transport and deformation of porous media, and applications to PEM Fuel Cells, Efficient swimming of organisms and artificial structures in micro scales inside channels and conduits, simulations and experiments for design and navigation of artificial structures in conduits, Design and aerodynamic optimization of vertical axis wind turbines.</i>

MEHMET YILDIZ (VICE PRESIDENT FOR RESEARCH AND DEVELOPMENT, DIRECTOR FOR SABANCI UNIVERSITY INTEGRATED MANUFACTURING TECHNOLOGIES RESEARCH AND APPLICATION CENTER, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9517</i>
E-Mail	<i>meyildiz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~meyildiz/</i>
Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My current research focuses on the experimental and computational aspects of materials processing with emphasis on advanced polymer-based composite materials, and crystal growth, I have been conducting research on manufacturing polymer-based composite materials for applications in aircraft structures and structural health management of fiber-reinforced advanced composite structures with embedded fiber optic FBG sensor arrays, Within the framework of my research on composite materials, I am also involved in a collaborative research activity on nano particle integrated composite materials, I am currently setting-up a crystal growth laboratory to grow Silicon-Germanium single crystals from the Silicon rich-side of the phase diagram, As well, I have been actively working on the development meshless computational fluid dynamics algorithms by using Smoothed Particle Hydrodynamics (SPH) method for simulating complex engineering problems such as free surface flow, multiphase flow and solidification.</i>

ALP YÜRÜM (RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Chemistry</i>
Phone	<i>90 (216) 483 9000/2404</i>
E-Mail	<i>ayurum@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/sudirectorystaffdetay/1990</i>
Research Area Keywords	<i>Energy Storage, Li-ion Batteries, Li-air Batteries, Hydrogen Storage, Metal Nanoparticles, Metal Oxide Nanoparticles, Zeolites, Carbon, Graphene.</i>
Current Research Activities	<i>Anode Development For High Capacity Li-Ion Batteries With Prolonged Life-Cycle; Development Of Effective Catalysts For Li-air batteries; Hydrogen Storage With Graphene/ Metal Oxide Nano Particle Composites; Water Treatment Using Semiconductor Photocatalysts, Membranes, and High Surface Area & Porous Adsorbents; Carbon Based Materials Characterization and Coal Chemistry; Development of High Surface Area Zeolites For Water Treatment, Energy, and Sensors.</i>





CEF

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EVİRİM AKDOĞU (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9637</i>
E-Mail	<i>evrimakdogu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/evrimakdogu/</i>
Research Area Keywords	<i>Corporate Finance; Theory and Empirical, Mergers and Acquisitions, Corporate Investments, Corporate Governance.</i>
Current Research Activities	<i>Currently working on the effects of Corporate Governance, in particular the Bond Covenants, on equity prices, the intensity of Merger and Acquisition activities as well as their impact on the performance of the participating firms of such activities.</i>

YİĞİT ATILGAN (DIRECTOR OF CENTER OF EXCELLENCE IN FINANCE, FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9663</i>
E-Mail	<i>yatilgan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/yatilgan/</i>
Research Area Keywords	<i>Investments, Derivatives Markets, International Finance.</i>
Current Research Activities	<i>Cross-sectional determinants of equity returns. Downside risk in international markets. Risk-return characteristics of alternative investments. Asset pricing anomalies in Borsa Istanbul.</i>

K. ÖZGÜR DEMİRTAŞ (FOUNDING CHAIRMAN OF CENTER OF EXCELLENCE IN FINANCE, FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9985</i>
E-Mail	<i>ozgurdemirtas@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozgurdemirtas/</i>
Research Area Keywords	<i>Investments, Asset Pricing, Portfolio Management, Risk Management, Financial Econometric, Derivatives.</i>
Current Research Activities	<i>I am currently working on a wide range of topics such as Return predictability in a cross-sectional and time series framework of stock returns. I focus on alpha-generating strategies. I also work on Portfolio allocation using newly developed Almost mean variance and Almost Stochastic dominance rules. The relationship between risk and return in emerging markets is also among my interests. The performance of the emerging markets during the past 10 years also motivated me to focus on Macroeconomic factors affecting valuations.</i>

A. DORUK GÜNAYDIN (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9655</i>
E-Mail	<i>dorukgunaydin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/dorukgunaydin</i>
Research Area Keywords	<i>Empirical Asset Pricing, Derivatives, International Finance.</i>
Current Research Activities	<i>Currently working on the stock return predictability in a cross-sectional framework. Risk and return relationship in international markets and asset pricing anomalies in BIST are among my interests.</i>

ŞERİF AZİZ ŞİMŞİR (FACULTY MEMBER)

Area	<i>Finance</i>
Phone	<i>90 (216) 483 9658</i>
E-Mail	<i>simsir@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/simsir/</i>
Research Area Keywords	<i>Mergers & Acquisitions, Valuation, Corporate Governance, Insider Trading, Market Efficiency.</i>
Current Research Activities	<i>I currently investigate the effect of labor unionization on the takeover decisions of firms. In another M&A-related study, I examine the association between the cultural diversity of the legal advisor teams and their effect on their client's merger outcomes. I am also involved in a project on insider trading and market efficiency, where we examine the stock market trading dynamics before and after major corporate announcements made through the Public Disclosure Platform (KAP) of MKK.</i>



IMC

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TECHNOLOGIES RESEARCH AND
APPLICATION CENTER

EDA AYDOĞAN GÜNGÖR (RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Nuclear Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1357</i>
E-Mail	<i>eaydogan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Nuclear Materials, Metal Additive Manufacturing, Electron Microscopy.</i>
Current Research Activities	<i>Radiation damage in nuclear materials, Processing techniques to produce heat and radiation resistant materials, Characterization of damage structures in materials, Diffraction techniques to analyze texture and deformation in metals, Additive manufacturing of nuclear grade metal parts.</i>

ERHAN BUDAK (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9519</i>
E-Mail	<i>ebudak@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~ebudak/</i>
Research Area Keywords	<i>Manufacturing Engineering, Machining Processes and Machine Tools, Machine Dynamics.</i>
Current Research Activities	<i>Modeling and simulation of multi-axis machining processes, Machining operations for turbine engine components, Modeling of grinding and super abrasive machining processes, Cryogenic cooling methods in machining operations, Stability of simultaneous machining operations, High performance machining of difficult-to-produce materials, Micro machining applications, Machine tool design, testing and modeling, Multi-tasking machine tool applications, Machine tool dynamics and chatter stability, Thermal modeling of machining processes, Milling tool design for increased productivity, Vibration suppression methods for machines.</i>

MURAT BÜYÜK (RESEARCHER)

Area	<i>Computational Mechanics</i>
Phone	<i>90 (216) 300 1352</i>
E-Mail	<i>muratbuyuk@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/muratbuyuk</i>
Research Area Keywords	<i>Computational Mechanics, Dynamic Behavior of Materials, Material Modeling and Characterization, Numerical Modeling of Structures Under Shock and Impact Loading, Transportation Safety and Security, Optimization.</i>
Current Research Activities	<i>Dr. Buyuk's current research focuses on understanding the mechanics of failure and fracture of conventional and unconventional materials, such as composite materials, metal matrix composites, functionally graded material, and particle-reinforced polymers under different temperature and loading conditions.</i>

ERALP DEMİR (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 300 1354</i>
E-Mail	<i>eralpd@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Composite Mechanics, Crystal Plasticity Finite Elements, Mechanical Size Effects, Residual Stress Measurements From Lattice Strains.</i>
Current Research Activities	<i>Modeling of Composites Mechanics for Curvilinear Fiber Placement Method, Finite Element Modeling of Crystal Plasticity, Physically-Based models for Single Crystal Plasticity, Modeling of Anisotropy and Texture Evolution during Metal Forming Processes.</i>

BEKİR DIZMAN (RESEARCHER)

Area	<i>Chemistry / Polymer Science and Engineering</i>
Phone	<i>90 (216) 300 1312</i>
E-Mail	<i>bekirdizman@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/bekirdizman</i>
Research Area Keywords	<i>Polymers (Functional Polymers, High Performance Polymers, Water-Soluble Polymers), Composite Materials (Nano-Engineered Prepregs and Composites, Out-Of-Autoclave (OOA) Manufacturing, Catalysts/Catalyst Systems), Nanomedicine (Nanotherapeutics (Drug Delivery Systems), Nanodiagnostics, and Nanotheranostics).</i>
Current Research Activities	<i>Design, synthesis, analysis, and structure-property relationship of functional polymers, water-soluble polymers, and high performance polymers. Design, preparation, and application of nano-engineered prepregs and composite materials with the utilization of novel resins and nanomaterials. Out-of-autoclave (OOA) manufacturing of composite materials. Preparation and utilization of new catalysts and catalyst systems with composite materials. Development of novel nanomedicines (advanced drug delivery systems for the treatment of various diseases including but not limited to cancer, inflammation, pain; targeted drug delivery, nanodiagnostics, and nanotheranostics).</i>

SELDA ERKOÇ İLTER (POSTDOCTORAL RESEARCHER)

Area	<i>Chemistry / Materials Science and Engineering</i>
Phone	<i>90 (216) 300 1300</i>
E-Mail	<i>erkocs@sabanciuniv.edu</i>
Web	<i>https://suimc.sabanciuniv.edu/about/team</i>
Research Area Keywords	<i>Polymer Chemistry, Functional Polymers, Controlled Polymerization Techniques (ATRP and RAFT Polymerization Organic Chemistry, Organic Synthesis, Material Science, Water Treatment, Membrane Technologies, Desalination Membranes, Thin Film Composite Membranes, Surface Coating.</i>
Current Research Activities	

THOMAS ANTHONY CENDER (RESEARCHER)

Area	<i>Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1351</i>
E-Mail	<i>tcender@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Composite Materials Manufacturing, Process Analysis, Out-of-Autoclave Processing, Thermoplastic Additive Processes, Polymer Rheology, Gas & Multiphase Flow in Porous Media.</i>
Current Research Activities	<i>Oven/vacuum bag methods in manufacturing composites structures; Gas evacuation in composite prepreg laminates and pore structure evaluation; Process modeling of continuous additive processes for thermoplastics and composites; Process analysis of manufacturing composites structures with PAEK polymers; Viscoelasticity of polymer melts; Layer adhesion in Automated Fiber Placement and 3D Printing;</i>

LEILA HAGHIGHI POUDEH (POST DOCTORAL RESEARCH FELLOW)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 300 1300</i>
E-Mail	<i>leilahp@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Graphene, Carbon Nanomaterials, Multi-Functional Polymeric Composites, Supercapacitors, Electrospinning, Polymer Processing, Recycling, Thermoplastics, Structural Composites, Additives.</i>
Current Research Activities	<i>Design and fabrication of graphene-based hybrid composites as high performance electrode materials, Plastic recycling, Synthesis of dimensionally controlled graphene structures via tri-axial electrospinning/electrospraying technique, Fabrication of structural composites, Graphene as nucleating agent in thermoplastic polymers.</i>

BAHATTİN KOÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 9557</i>
E-Mail	<i>bahattinkoc@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/bahattinkoc/</i>
Research Area Keywords	<i>Computer-Aided Design and Manufacturing, Additive Manufacturing (3D Printing), Tissue/Organ Engineering, Nano/Micro-Scale Modeling And Manufacturing.</i>
Current Research Activities	<i>Dr. Koç's research interests include i) 3D bioprinting/ biomanufacturing for tissue and organ engineering; ii) computational geometry and optimization for additive manufacturing process; iii) heterogenous, multi-functional object modeling and manufacturing; iv) nano-micro additive manufacturing of composite materials; v) proses planning and development for hybrid additive-subtractive processes. Dr. Koç's research goal is to develop novel integrated computational design and manufacturing strategies and techniques for geometrically and functionally complex parts for various applications from biomedical engineering, medicine to consumer products to aerospace and automotive.</i>

YUSUF MENCELOĞLU (FACULTY MEMBER)

Area	<i>Manufacturing Engineering / Materials Science and Nano Engineering</i>
Phone	90 (216) 483 9535
E-Mail	yusufm@sabanciuniv.edu
Web	http://people.sabanciuniv.edu/yusufm/
Research Area Keywords	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>
Current Research Activities	<i>Polymer Science, Nano Science, Synthesis, Characterization, Structure-Property Relationship, (Nano)Composites, Modification, Fluorinated Polymers, Oligomers, Surfactants, Formulation of Performance Chemicals.</i>

BURÇ MISIRLIOĞLU (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	90 (216) 483 9562
E-Mail	burc@sabanciuniv.edu
Web	http://people.sabanciuniv.edu/burc/
Research Area Keywords	<i>Ferroelectricity, Thin Films, Devices.</i>
Current Research Activities	<i>Ferroelectric Based Solid State Memory, Phase Transitions in Thin Films, Functionally Graded Structures, Nanomagnetism.</i>

BURCU SANER OKAN (RESEARCHER)

Area	<i>Materials Science and Engineering</i>
Phone	<i>90 (216) 483 9000/2415</i>
E-Mail	<i>bsanerokan@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/</i>
Research Area Keywords	<i>Graphene, Nanocomposites, Polymers, Nanofibers, Electrospinning, Recycling.</i>
Current Research Activities	<i>Development of graphene and graphene hybrid functional additives, scaling up graphene production, light-weight thermoplastic composites, high performance engineering plastics, self-healing composites, synthesis nanostructures by electrospinning and electrospraying techniques, recycling and upcycling processes.</i>

GHAZALEH SOLTANIEH (POST DOCTORAL RESEARCH FELLOW)

Area	<i>Materials Science and Engineering</i>
Phone	<i>90 (216) 483 1300</i>
E-Mail	<i>gsoltanieh@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/goltanieh</i>
Research Area Keywords	<i>Finite Element, FRP Composite, Optimization Method, Buckling, Curvilinear Fiber, Variable Stiffness.</i>
Current Research Activities	<i>Optimum behaviour of the variable stiffness plates with curvilinear fibers, Minimizing the stress concentration around the hole in the plates with holes, Minimizing the displacement of the curvilinear fiber plates under the static load, Maximizing the buckling strength of the curvilinear fiber plates.</i>

ZEYNEP MÜNTEHA ŞAHİN (POSTDOCTORAL RESEARCHER)

Area	<i>Chemistry</i>
Phone	<i>90 (216) 300 1300</i>
E-Mail	<i>zsahin@sabanciuniv.edu</i>
Web	<i>https://suimc.sabanciuniv.edu/about/team</i>
Research Area Keywords	<i>Polymer Synthesis and Characterization, Polymer Technology, Macroporous Hydrogels (Cryogels) and Soft Materials, Functional Materials Design, Fluorescent and Electrochemical Sensors.</i>
Current Research Activities	

HATİCE SİNEM ŞAŞ ÇAYCI (RESEARCHER)

Area	<i>Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1355</i>
E-Mail	<i>haticesas@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/haticesas/</i>
Research Area Keywords	<i>Liquid Composite Molding, Out-of-Autoclave Prepregs, Process Modeling and Simulation, Rheology, Fluid Dynamics, Permeability Characterization.</i>
Current Research Activities	<i>Modeling and optimization of Liquid Composite Molding (LCM) applications, Vacuum Bag Only (VBO) prepreg processing and Pultrusion. Numerical and experimental permeability characterization techniques of dry preforms and prepregs. Modeling the mechanical performance of 3D-printed composite elements. Characterization of rheological behavior of resin system. Modeling and optimization of the processing of 3D fabrics systems. Adaptation of inverse problems to resin flow through porous media.</i>

LÜTFİ TANER TUNÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1305</i>
E-Mail	<i>ttunc@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ttunc/</i>
Research Area Keywords	<i>Robotic Manufacturing, Machine Tools, Machining Processes, CAD-CAM, 5-axis Milling.</i>
Current Research Activities	<i>Modelling and Simulation of Machining Processes & Systems/ Tool path generation and modification approaches for sculptured surface milling/Selection of Machining Strategies/ Tool path generation for automated fibre placement systems/Enhanced Accuracy for Robotic Milling/Modelling of 5-axis Abrasive Waterjet Cutting Processes.</i>

SERRA TOPAL (POSTDOCTORAL RESEARCHER)

Area	<i>Materials Science and Nano Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 483 1300</i>
E-Mail	<i>serrat@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/serrat</i>
Research Area Keywords	<i>2D & 3D Woven Composites, Textile Composites, Graphene Reinforcement, Composite Bonding, Atmospheric Plasma Activation, FEA & Simulations, Micromechanical Analysis, Multiscale Modeling, Functionally Graded Materials (Fgms), Polymeric Graded Materials (Pgms) And Additive Manufacturing, Fracture Mechanics, J-Integral Method, Thermomechanical Stress Analysis.</i>
Current Research Activities	<i>Thermally exfoliated graphene nanointegration in fabric reinforcement and resin systems for improved performance of composite repair patches. Enhanced dispersion methods for nano-phase integration in resins. Novel non-destructive inspection techniques for fiber reinforced composites. Atmospheric plasma activation of composites for enhanced bonding systems.</i>

Current Research Activities	<i>High performance thermoplastics (PEKK, PEI, and other imidized plastics), their production methods for aviation and aerospace applications. Advanced manufacturing techniques for 2D and 3D woven glass/Carbon/hybrid composites, their characterization, micromechanical/multiscale modeling and testing. Her research goal is to enhance the existing production, bonding, strengthening technologies of composites, also create a mindfulness on multifunctional graded and high performance thermoplastic materials in aerospace industries.</i>
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SERKAN ÜNAL (RESEARCHER)

Area	<i>Chemistry / Material Science and Engineering</i>
Phone	<i>90 (216) 483 9996</i>
E-Mail	<i>serkanunal@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/serkanunal</i>
Research Area Keywords	<i>Polymer Chemistry, Polymer Synthesis and Characterization, Structure-Property Relationships In Polymeric Materials, Functional and Branched Polymers, Polymer Emulsions and Dispersions, Polyurethane Chemistry, Surface Coatings, Adhesives, Thermosets, Membranes, Carbon Nanomaterials, Hybrid and Multifunctional Nanomaterials, Structural Composites, Nanocomposites, Lithium Ion Battery Electrodes.</i>
Current Research Activities	<i>Synthesis of waterborne polyurethane dispersions for functional coating and adhesive applications, polymeric nanofiltration and reverse osmosis membranes for water purification and desalination applications, hybrid nanomaterials for water purification, multifunctional nanomaterials for structural composites, hybrid nanomaterials for energy storage and conversion applications.</i>

MUSTAFA ÜNEL (FACULTY MEMBER)

Area	<i>Manufacturing Engineering / Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9549</i>
E-Mail	<i>munel@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/munel</i>
Research Area Keywords	<i>Computer Vision, Control Systems, Robotics.</i>
Current Research Activities	<i>Micro-nano imaging and visualization of hydrodynamic cavitation bubbles, Visual tracking of cavitation droplets/bubbles, System identification for dynamic calibration of diesel engines, Robust and high performance airpath control techniques for diesel engines, Stabilization of robotic platforms using acceleration control, Development of sensor fusion methods for GPS integrated INS systems, Image stitching and mosaicing of aerial images, Design, development and control of unmanned aerial vehicles (UAV), Adaptive control of quadrotor type helicopters, Activity recognition using depth images Visual servoing, Robotics manufacturing, Unconventional manufacturing.</i>

MEHMET YILDIZ (VICE PRESIDENT FOR RESEARCH AND DEVELOPMENT, DIRECTOR FOR SABANCI UNIVERSITY INTEGRATED MANUFACTURING TECHNOLOGIES RESEARCH AND APPLICATION CENTER, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering / Manufacturing Engineering</i>
Phone	<i>90 (216) 300 1301 / 90 (216) 483 9517</i>
E-Mail	<i>meyildiz@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~meyildiz/</i>
Research Area Keywords	<i>Composite Materials, Structural Health Monitoring, Transport Phenomena, Meshless Computational Fluid Dynamics, Crystal Growth, Semiconductor Materials.</i>
Current Research Activities	<i>My current research focuses on the experimental and computational aspects of materials processing with emphasis on advanced polymer-based composite materials, and crystal growth. I have been conducting research on manufacturing polymer-based composite materials for applications in aircraft structures and structural health management of fiber-reinforced advanced composite structures with embedded fiber optic FBG sensor arrays. Within the framework of my research on composite materials, I am also involved in a collaborative research activity on nano particle integrated composite materials. I am currently setting-up a crystal growth laboratory to grow Silicon-Germanium single crystals from the Silicon rich-side of the phase diagram. As well, I have been actively working on the development meshless computational fluid dynamics algorithms by using Smoothed Particle Hydrodynamics (SPH) method for simulating complex engineering problems such as free surface flow, multiphase flow and solidification.</i>





SUGENDER

GENDER AND
WOMEN'S STUDIES CENTER OF EXCELLENCE



Center of Excellence
for Gender and
Women's Studies

HÜLYA ADAK (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies / European Studies / Turkish Studies</i>
Phone	<i>90 (216) 483 9287</i>
E-Mail	<i>hadak@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hadak/</i>
Research Area Keywords	<i>Gender and Sexuality; Genocide Studies; Literary Theory; Nationalism; Theories of Autobiography; British, French and Turkish Novel; Ottoman Armenians in Literature and History; Modern Drama.</i>
Current Research Activities	<i>In 2018, Adak was awarded the British Academy Newton grant for the project "Literary and Filmic Representations of Trauma, Justice and Reconciliation: A Comparative Exploration of Research Methodologies in Turkish and Northern Irish Film Studies and Practices". Together with her project partner Dr. Murat Akser, Adak will be publishing a monograph and articles on trauma, gender, and violence in literature and film in the next two years. Adak co-edited (with Rüstem Ertuğ Altınay) a special issue titled "Performing Turkishness: Politics of Theater in Turkey and its Diasporas" to be published by the Journal of Comparative Drama in winter 2019. She is also preparing a second book including current interviews on sexuality in order to publish an edited volume (an academic book) on feminism, sexuality and theater in Turkey. Adak's forthcoming book is entitled "Canon-Bending: Confrontations between Armenian and Turkish Literatures". Other publications and edited volumes relevant to Gender and Women's Studies include Halide Edib and Politische Gewalt (Halide Edib and Political Violence, translated by Corry Guttstadt & Gözde Özbek) which will be published by Duncker and Humblot Verlag in Berlin in 2019, Halide Edib ve Siyasal Şiddet: Ermeni Kırımı, Şiddetsizlik ve Diktatörlük (Istanbul Bilgi Üniversitesi Yayınları, 2016), Hundert Jahre Türkei: Zeitzeugen erzählen (Hundred Years of Turkey, co-edited with Erika Glassen, published by Unionsverlag in 2010 and 2014, detailing the gendered history of twentieth-century Turkey), and "Gender, Ethnicity, and the Nation-State,"</i>

Current Research Activities	<p><i>a special dossier of New Perspectives on Turkey (co-edited with Ayşe Gül Altınay, published in 2010). The book işte böyle güzelim... based on interviews with women from Turkey and Germany on sexuality was published in 2008. The German translation so ist das, meine Schöne... was published by Orlanda Frauenverlag in 2009. She has published in various journals on feminism, gender and sexuality, including the PMLA, Journal of Middle East Women's Studies, Journal of Genocide Research and New Perspectives on Turkey.</i></p>
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AYŞE GÜL ALTINAY (DIRECTOR FOR GENDER AND WOMEN'S STUDIES CENTER OF EXCELLENCE, FACULTY MEMBER)

Area	<p><i>Gender Studies / Conflict Analysis and Resolution / Cultural Studies</i></p>
Phone	<p><i>90 (216) 483 9286</i></p>
E-Mail	<p><i>altinay@sabanciuniv.edu</i></p>
Web	<p><i>http://myweb.sabanciuniv.edu/altinay/</i></p>
Research Area Keywords	<p><i>Political Anthropology; Transformative Politics, Militarism; Trauma; Embodiment; Memory; Gender and Sexuality.</i></p>
Current Research Activities	<p><i>Altınay's current research and writing focus on gender and memory; political violence and trauma; transformative political imaginaries; embodied politics; social and political processes of (de)militarization. Her co-edited book (with Maria Jose Contreras, Marianne Hirsch, Jean Howard, Banu Karaca and Alisa Solomon) Women Mobilizing Memory is due to come out of Columbia University Press in Spring 2019. With Gülru Göker, she is the Co-Principal Investigator of "GEARING-Roles: Gender Equality Actions to Transform Gender Poles", European Commission Horizon 2020 SwafS (January 2019 – January 2023).</i></p>

MELSA ARARAT (FOUNDING DIRECTOR FOR CORPORATE GOVERNANCE FORUM OF TURKEY, PRINCIPLE RESEARCHER, FACULTY MEMBER)

Area	<i>Management</i>
Phone	<i>90 (216) 483 9712</i>
E-Mail	<i>melsaararat@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/melsaararat/</i>
Research Area Keywords	<i>Corporate Governance; Boards; Business Groups; Sustainable Investing; Business Ethics; Gender; Climate Change.</i>
Current Research Activities	<i>Ararat's on-going research examines the impacts of board diversity on financial and social performance. She (together with Professor R. Adams and O. Ozbas) investigates the value differences between female and male directors and the role of the political environment on how gender diversity effects board effectiveness, based on a case study of Egypt. She is currently co-editing a special issue on "Corporate Governance in Emerging Markets" for Emerging Markets Review, which includes two papers on gender quotas and their association with firm performance. She is also editing a book on the role of business-university partnerships in achieving social goals, using Business against Domestic Violence campaign as a case. She continues to work on corporate governance of business groups (with B. Yurtoglu) and recently started exploring how board diversity relates to companies' climate change strategy.</i>

SÜPHAN BAKKAL (INSTRUCTOR)

Area	<i>Molecular Biology, Genetics and and Bioengineering</i>
Phone	<i>90 (216) 483 9714</i>
E-Mail	<i>suphanbakkal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Bacteria; Bacteriocin; Antimicrobial Resistance.</i>
Current Research Activities	<i>Bakkal's research examines bacteria, natural antimicrobials, antimicrobial resistance, and science education. She also serves as an advisor to SU Gender in the field of STEM-Gender, creating gender-sensitive educational material for secondary education as part of the Purple Certificate Program.</i>

KRISTEN SARAH BIEHL ÖZTUZCU (RESEARCHER)

Area	<i>SU Gender / Conflict Analysis and Resolution / Cultural Studies</i>
Phone	<i>90 (216) 483 9263</i>
E-Mail	<i>kristenb@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/kristenb</i>
Research Area Keywords	<i>Social and Cultural Anthropology; Migration and Refugee Studies; Urban Studies; Diversity and Conviviality; Civil Society and NGOs.</i>
Current Research Activities	<i>Kristen Biehl's current research explores the increasingly popular term of social cohesion in Turkey's refugee context, both as a policy concept and a socio-spatial practice, and focuses on the role of gender more specifically. Besides her individual research, Biehl is currently involved in developing new collaborative projects, including one examining migration research in Turkey from a gendered perspective, and another (in collaboration with SU Gender's Curious Steps Program), examining different methods and theories of urban research centered on walking.</i>

ZEYNEP GÜLRU GÖKER (RESEARCHER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9274</i>
E-Mail	<i>gulru@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/gulru/</i>
Research Area Keywords	<i>Gender and Politics; Gender, Political Participation and Civic Engagement; Participatory and Deliberative Democracy; Women's Movements; Politics of Motherhood; Gender and Political Education; Gender and Care.</i>
Current Research Activities	<p><i>Gülru Göker's academic work is mainly focused on political participation, deliberative democracy and the gendered aspects of politics. She applies a gender perspective to her study of extra-parliamentary political participation, civic engagement and political education. Her current research explores the place of gender equality and democracy in theory and in practice in alternative early education models. She also conducts research on digital feminism, politics of motherhood and the role of care in political action and civic engagement. She is currently working as co-principal Investigator (together with Ayşe Gül Altınay) in the Project: "GEARING-Roles: Gender Equality Actions to Transform Gender Roles" funded by European Commission Horizon 2020 SWAFS (January 2019 – January 2023). She has also previously worked as researcher on the following projects:</i></p> <ul style="list-style-type: none"> <i>* Coordinator / researcher, "Gender Equality Actions in Turkey's Higher Education", in collaboration with the Raoul Wallenberg Institute in Turkey (January-April 2018).</i> <i>* Researcher, "Living Together with Difficult Memories and Diverse Identities", funded by ERANET-RUS-PLUS (TÜBİTAK in Turkey). Project coordinator: Dr. Kirsti Salmi-Niklander, Helsinki University. Turkey team coordinator: Prof. Hülya Şimğa, Maltepe University (January 2016-January 2018)</i> <i>* Researcher, "Gezi Resistance and Individuals in Solidarity: The Formation of New Women Political Subjects in Turkey", funded by the Galatasaray University Scientific Research Projects Coordination Department (May 2014-August 2015)</i> <i>* Post-doctoral researcher, "Russian-Turkish Migratory System: Methods of Estimations and Forecasting in Migration Flows", funded by The Scientific and Technological Research Council in Turkey (project coordinator: Prof. Ahmet İçduygu) (July 2012-November 2013).</i>

ASLI İKİZOĞLU ERENSU (FACULTY MEMBER)

Area	<i>Cultural Studies</i>
Phone	<i>90 (216) 4839255</i>
E-Mail	<i>aikizoglue@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/aikizoglue</i>
Research Area Keywords	<i>Feminist Political Geography; Urban Geography; Mobilities; Forced Migration; Politics of Humanitarianism.</i>
Current Research Activities	<i>Aslı İkizoğlu Erensü is broadly interested in regimes of mobility and politics of humanitarianism, and specifically works on (i) how refugees are constituted as subjects of intervention at the intersection of the two, and (ii) how the experience of asylum is locally produced in Turkish cities. She has published on these issues in both Turkish and English-language journals, including Citizenship Studies and Journal of Refugee Studies. For her current research, she will focus on the politics of motherhood in the recent trend of outmigration from Turkey, and question how ideals and practices of motherhood impact women's sense of belonging to Turkey and pave the way to the decision to migrate.</i>

ARZU KIBRIS (NETWORK FACULTY MEMBER)

Area	<i>Gender Studies / International Studies / Conflict Analysis and Resolution / Political Science</i>
Phone	<i>90 (216) 483 9255</i>
E-Mail	<i>akibris@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/akibris/</i>
Research Area Keywords	<i>Civil Conflict, Linkage Politics, Quantitative Methods, Game Theory.</i>
Current Research Activities	<i>Arzu Kıbrıs's research interests focuses on the dynamics and socio-political effects of civil conflicts, and the linkages between domestic and foreign policy. She mostly conducts empirical work, but also employs game theoretical tools in her analyses. Her current projects are about the impact of PKK's terrorist campaign on voting behavior and on educational sector in Turkey. She is also working on a game theoretical model of ethnic civil conflicts project aimed at understanding the interplay between public opinion and the long duration of these conflicts.</i>

CENK ÖZBAY (FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	<i>90 (216) 483 9253</i>
E-Mail	<i>ozbay@sabanciuniv.edu</i>
Web	<i>www.cenkozbay.com</i>
Research Area Keywords	<i>Sociology of Gender and Sexualities; Masculinity Studies; Globalization and Neoliberalism; Anthropology of Work; Urban Sociology; Mobilities and Transportation Systems; Qualitative Research Methods.</i>
Current Research Activities	<i>Özbay's recent research activities concentrate on the questions around how different domains of life (including cultures of work and workplace, gentrification processes, social justice activism, space-making, and the making of neoliberal personhood) are articulated with class, gender, political, sexual, and bodily forms of identification and collectivities in Istanbul. My most recent books are <i>Queering Sexualities in Turkey: Male Prostitutes, Gay Men, and the City</i> (2017, IB Tauris) and <i>Kültür Denen Şey: Antropolojik Yaklaşımlar</i> (2018, Metis).</i>

AYŞECAN TERZİOĞLU (FACULTY MEMBER)

Area	<i>Gender Studies / Cultural Studies</i>
Phone	90 (216) 483 9272
E-Mail	aysecan@sabanciuniv.edu
Web	http://myweb.sabanciuniv.edu/
Research Area Keywords	<i>Globalization and Health Inequalities; Gender; Anthropology of the Body; Anthropology of the Middle East; Illness Experiences and Narratives.</i>
Current Research Activities	<i>One of Terzioğlu's current research projects focuses on the problems that Syrians experience in seeking health care in Turkey. It explores the discriminatory discourses they encounter in the realm of health care, and how they cope with them. This research is a part of a larger research project she is currently designing about the basic needs of Syrians in Turkey, such as health, education, housing and employment, in terms of how they struggle to address those needs, and what type of daily life encounters they experience in that process. Gender conceptions and embodiment play an important role in shaping these experiences and encounters; therefore, they constitute major parts of my theoretical framework. Terzioğlu's other research project delves into the biopolitics of smoking in Turkey, which takes into account the past and current political attempts at tobacco control and bans, and how it affected the tobacco consumption patterns. It also pinpoints the traditional gender norms that condemn women smoking, especially in public areas, and how the female smokers react against these norms. Her articles on Syrians in Turkey are published in the Making of Neoliberal Turkey (Routledge, 2016), Toplum ve Bilim (2015) and Anthropology of Contemporary Middle East and Central Eurasia (2018). Her article on the gendered performativities of smoking is published in Toplum ve Hekim (2018).</i>

ASLIHAN MUAZZEZ ÜNSAL (VISITING INSTRUCTOR)

Area	<i>High Energy Astrophysics</i>
Phone	<i>0216 568 7011</i>
E-Mail	<i>aslihanunsal@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/</i>
Research Area Keywords	<i>Observational Astrophysics, Gamma-Ray Bursts, Science Education.</i>
Current Research Activities	<i>Ünsal is currently working on the analysis of high energy spectrum (gamma-ray band) of Gamma-Ray Burst prompt emission, using Fermi-GBM satellite data. She is also looking for signatures of thermal emission component originating from the photosphere of the emission site. She is also interested in research related to STEM education in universities with active/student-centered learning approach. Ünsal also serves as an advisor to SU Gender in the field of STEM-Gender.</i>



VERIM

SABANCI UNIVERSITY CENTER OF EXCELLENCE IN
DATA ANALYTICS

İNANÇ ARIN (INSTRUCTOR)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 7035</i>
E-Mail	<i>inancarin@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/inancarin</i>
Research Area Keywords	<i>Data Mining, Machine Learning, Text Mining.</i>
Current Research Activities	<i>Dr. Arın's area of research work focuses on Machine Learning and Data Mining that aim to advance the understanding of hidden information and patterns in the data.</i>

SELİM BALCISOY (FENS VICE DEAN, FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9569</i>
E-Mail	<i>balcisosy@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/balcisosy</i>
Research Area Keywords	<i>Modeling and Analysis of Scheduling Systems with a Recent Emphasis on Stochastic Aspects, Mathematical Programming and Computational Optimization with an Emphasis on Novel Methodological and Practical Aspects of Decomposition Methods, Modeling and Optimization for Cloud Computing, Optimization Problems at the Interface of Predictive and Prescriptive Analytics.</i>
Current Research Activities	<i>Dr. Balcisosy is a Director of Behavioral Analytics & Visualization Lab, co-founded by Sabanci University and MIT Media Lab Human Dynamics Group in 2015. The Lab conducts research on Big Data Analytics and Data Visualization using large data sets and is supported by Akbank, Aksigorta, Sigorta Bilgi ve Gözetim Merkezi, and SAS.</i>

KEREM BÜLBÜL (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9589</i>
E-Mail	<i>bulbul@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/bulbul/</i>
Research Area Keywords	<i>Modeling and Analysis of Scheduling Systems with a Recent Emphasis on Stochastic Aspects, Mathematical Programming and Computational Optimization with an Emphasis on Novel Methodological and Practical Aspects of Decomposition Methods, Modeling and Optimization for Cloud Computing, Optimization Problems at the Interface of Predictive and Prescriptive Analytics.</i>
Current Research Activities	<i>Currently, my research is evolving in two primary areas. First, I am studying machine scheduling problems through mathematical programming techniques, with a focus that is shifting towards modeling risk under uncertainty. Second, I continue to work on both novel methodological and practical aspects of decomposition methods in mathematical programming and computational optimization. Recently, I have also taken a keen interest in modeling and optimization of problems that arise in a cloud-computing environment.</i>

BÜLENT ÇATAY (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9531</i>
E-Mail	<i>catay@sabanciuniv.edu</i>
Web	<i>http://fens.sabanciuniv.edu/en/people/faculty/detail/292</i>
Research Area Keywords	<i>Production Planning, Transportation and Logistics Systems, Sustainable Transport Planning, Vehicle Routing, Electromobility, Applied Optimization, Metaheuristic Approaches to Large-Scale Problems.</i>
Current Research Activities	<i>Decision problems related to transportation and logistics systems with a special emphasis on sustainable transport planning, the utilization of electric vehicles in logistics operations, battery performance analysis, and energy-efficient transportation as well as applied optimization and heuristic methods to solve large-scale combinatorial optimization problems.</i>

ABDULLAH DAŞCI (DIRECTOR OF THE INTERNATIONAL RELATIONS OFFICE, FACULTY MEMBER)

Area	<i>Operations & Information Systems Management</i>
Phone	<i>90 (216) 483 9664</i>
E-Mail	<i>dasci@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/dasci</i>
Research Area Keywords	<i>Supply Chain Management, Logistics Design, Location Analysis, Procurement Design, Digital Transformation.</i>
Current Research Activities	<i>Spare parts distribution logistics system design. Logistics system design in the banking sector. Analysis of procurement contract designs. Profit maximizing branch location in hub-and-spoke networks.</i>

AHMET DEMIRELLİ (INSTRUCTOR)

Area	<i>Massive Scale Data Processing in Parallel, Enterprise Java Technologies, BigData</i>
Phone	<i>90 (216) 483 9516</i>
E-Mail	<i>ahmetdemirelli@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ahmetdemirelli</i>
Research Area Keywords	<i>Spark, Hadoop, Parallel Data Processing, BigData, Sketching.</i>
Current Research Activities	<i>Sketching Methods for BigData.</i>

KAMER KAYA (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9566</i>
E-Mail	<i>kaya@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/kaya</i>
Research Area Keywords	<i>High Performance Computing, Parallel Algorithms, Cryptography.</i>
Current Research Activities	<i>Dr. Kaya is working on high-performance computing, GPU programming, and developing parallel algorithms for sparse and irregular data on various architectures including clusters, multicore CPUs, and accelerators. He is also working on Cryptography and Blockchain.</i>

KEMAL KILIÇ (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9596</i>
E-Mail	<i>kkilic@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/kkilic/</i>
Research Area Keywords	<i>Data Mining, Decision Support Systems, Heuristic Search and Optimization Techniques, Innovation Management, Health Informatics.</i>
Current Research Activities	<i>Dr. Kilic currently works on Digital Transformation with a particular focus in application of data science techniques as part of the decision-making process in operations. He also works on maturity assessment of SMEs and developing strategies/road maps for their digitalization journey.</i>

NİLAY NOYAN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9618</i>
E-Mail	<i>nnoyan@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~nnoyan/</i>
Research Area Keywords	<i>Decision Making under Uncertainty, Stochastic Programming, Risk Modeling, Statistical Inference, Large-scale Optimization, Stochastic Optimization Applications.</i>
Current Research Activities	<i>Large-scale optimization, stochastic programming and risk modelling with a focus on developing stochastic optimization modeling approaches and solution methods that can be applied to a wide range of decision making problems. Dr. Noyan has been particularly interested in sustainable urban transportation, airline revenue management, and humanitarian logistics.</i>

H. SAİT ÖLMEZ (FACULTY MEMBER)

Area	<i>Information Technologies, Data Analytics</i>
Phone	<i>90 (216) 483 9578</i>
E-Mail	<i>olmez@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/olmez</i>
Research Area Keywords	-
Current Research Activities	-

ERDİNÇ ÖZTÜRK (FACULTY MEMBER)

Area	<i>Computer Science and Engineering / Electronics Engineering</i>
Phone	<i>90 (216) 483 9514</i>
E-Mail	<i>erdinco@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Cryptography and Security, Computer Architecture, High-Performance Cryptography (Hardware and Software Applications).</i>
Current Research Activities	<i>High-Performance Cryptography (Hardware and Software Applications), Cloud Security, Post-Quantum Cryptography, FPGA Design, and Computer Architecture</i>

A. GİZEM ÖZBAYGIN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 568 7040</i>
E-Mail	<i>ozbaygin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/ozbaygin/</i>
Research Area Keywords	<i>Large-Scale Optimization Focused on Transportation and Logistics, Vehicle Routing and Scheduling, Last-Mile and Same-Day Delivery Planning, Algorithm Design.</i>
Current Research Activities	<i>My primary research interests are modeling and solving large-scale optimization problems with a focus on transportation and logistics, as well as innovative applications for vehicle and scheduling, last-mile delivery planning, ride-sharing, and green logistics. Inspired by the successful use of big data analytics in transportation and logistics industry within the past few years, I am also interested in the use of machine learning techniques in designing algorithms to efficiently solve dynamic and stochastic problems encountered in practice.</i>

HÜSEYİN ÖZKAN (FACULTY MEMBER)

Area	<i>Electronic Engineering</i>
Phone	<i>90 (216) 483 9594</i>
E-Mail	<i>hozkan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/hozkan</i>
Research Area Keywords	<i>Signal Processing, Machine Learning, Computer Vision, and Computational Neuroscience.</i>
Current Research Activities	<i>Anomaly Detection, Multi-Armed Bandit Problems, Online Classification/Clustering, Visual Tracking, Vision-based Large Area Surveillance, Attention Modeling for BCI Applications, P300 based BCI Speller, Neural Corralates of Naturalistic Face Perception.</i>

YÜCEL SAYGIN (FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9576</i>
E-Mail	<i>ysaygin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/ysaygin/</i>
Research Area Keywords	<i>Data Mining, Spatio-Temporal Data Management, Privacy-Preserving Data Mining, Privacy-Preserving Data Publishing.</i>
Current Research Activities	<i>Data mining and privacy aspects of data mining, ubiquitous knowledge discovery and spatio-temporal data mining, privacy-preserving distributed mining of spatio-temporal data, and anonymization of moving object trajectories.</i>

GÜVENÇ ŞAHİN (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9619</i>
E-Mail	<i>guvencs@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/guvencs</i>
Research Area Keywords	<i>Transportation and Distribution Planning, Scheduling and Sequencing, Network Design and Flow, Heuristic Algorithms, Linear Integer Programming.</i>
Current Research Activities	<i>Transportation Crew Planning, Line Planning in Urban Transportation, Operations in Electricity Markets, Vehicle Routing Problems, Airport Operations Planning, Reverse/Spare-Parts Logistics Network Design.</i>

ÖZNUR TAŞTAN (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering / Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9883</i>
E-Mail	<i>otastan@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu</i>
Research Area Keywords	<i>Machine Learning, Computational Biology, Bioinformatics, Complex Diseases, Genomic Data Privacy.</i>
Current Research Activities	<i>Significant progress has been made in the ability to characterize DNA, RNA, and protein sequences, and measure expression quantities. Towards fully realizing the scientific and clinical potential of this large scale data, our main research objective is to develop biologically-motivated, statistically-grounded, and computationally-efficient tools that provide insights for diseases and cellular mechanisms. Our lab develop and apply machine-learning techniques that utilize this large and heterogeneous biological data toward addressing a diverse range of problems. Additionally in our recent work, we focus on genomic data privacy.</i>

BERRİN YANIKOĞLU (DIRECTOR FOR SABANCI UNIVERSITY CENTER OF EXCELLENCE IN DATA ANALYTICS, FACULTY MEMBER)

Area	<i>Computer Science and Engineering</i>
Phone	<i>90 (216) 483 9528</i>
E-Mail	<i>berrin@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/berrin/</i>
Research Area Keywords	<i>Biometrics, Document Recognition, Image Understanding, Machine Learning.</i>
Current Research Activities	<i>Machine learning applications in computer vision and natural language understanding, including attribute-based classifiers for face and plants, plant and plant disease identification from photographs, handwriting recognition, signature and fingerprint verification, and text understanding and summarization.</i>

SİNAN YILDIRIM (FACULTY MEMBER)

Area	<i>Industrial Engineering</i>
Phone	<i>90 (216) 483 9583</i>
E-Mail	<i>sinanyildirim@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~sinanyildirim/</i>
Research Area Keywords	<i>Bayesian Statistics, Monte Carlo Simulation.</i>
Current Research Activities	<i>Technical report: On the Use of Penalty MCMC for Differential Privacy, on arxiv. Currently working in collaboration with Christophe Andrieu, University of Bristol and Arnaud Doucet, University of Oxford on two papers: "Scalable Monte Carlo inference for state- space models" and "On an alternative class of pseudo- marginal algorithms". Ertunç Erdil, Sinan Yıldırım, Tolga Tasdizen, Mujdat Çetin, "MCMC Shape Sampling for Image Segmentation with Nonparametric Shape Priors", Computer Vision and Pattern Recognition, CVPR 2016, Las Vegas.</i>





EFSUN

CENTER OF EXCELLENCE FOR FUNCTIONAL
SURFACES AND INTERFACES

FERAY BAKAN (RESEARCHER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9000-2406</i>
E-Mail	<i>feraybakan@sabanciuniv.edu</i>
Web	<i>http://sunum.sabanciuniv.edu/</i>
Research Area Keywords	<i>Bioceramic Nanoparticles, Nanocharacterization, Functional Surfaces.</i>
Current Research Activities	<i>Calcium phosphate based nano biomaterials and their toxicity assessment, Nanocharacterization and Spectroscopy techniques (AFM, SEM, EDS, Raman, FTIR, XRD) Artificial bone composites, Bone fracture healing, Nanostructuring by focused electron and ion beams, Surface Modification of Materials using Gas Assisted Etching in Dual-Beam Platforms, Gene silencing with siRNA using nanoparticles as carrier.</i>

HÜVEYDA BAŞAĞA (FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9511</i>
E-Mail	<i>huveyda@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~huveyda/</i>
Research Area Keywords	<i>Signaling Pathways Leading to Gene Expression in Cancer Cells, Transcriptional Control of Cell Survival and Apoptosis, Molecular Basis of Inflammation, Oxidative Stress and Antioxidants as Signalling Molecules.</i>
Current Research Activities	<i>We address the specific role of Bcl-2 proteins in HNE induced apoptosis as they can be considered major therapeutic targets for the treatment of atherosclerosis. Furthermore, protection exerted by phytoestrogens on the apoptotic effect of HNE is also within our research scope. Another line of research is to study the transcriptional regulation exerted by NF-κB and FOXO on the drug related chemoresistance mechanism and identify the role of Bcl-2 protein family members (Bcl-2, Bcl-xL, Bax, Bak, Bad) in the apoptotic response. Specifically the role of Bcl-2 proteins as apoptotic switch in cancer development and therapy is the theme of current research.</i>

Current Research Activities	<p><i>A recent line of research is the characterization of the biological effects of drug loaded nanoparticles in several cell lines. In one of our projects, we are trying to increase the antioxidant defense capacity of cells by using a specifically designed nanosystem. For this purpose, a nanosystem has already been tested in the 3T3 fibroblast cell line. More recently, we are seeking to design and implement a nanoparticle-porphyrin based theranostic agent to be used in targeted photodynamic therapy. Our specific aims regarding theranostics are: to develop new tools for one step imaging and therapy for cancer, to understand the role of antioxidant response in nanosystem based photodynamic therapy, and to develop and understand the mechanisms of novel theranostic tools for anti-cancer treatment.</i></p>
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DEVRİM GÖZÜAÇIK (VICE DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES, FACULTY MEMBER)

Area	<i>Molecular Biology, Genetics and Bioengineering</i>
Phone	<i>90 (216) 483 9617</i>
E-Mail	<i>dgozuacik@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/dgozuacik and http://efsun.sabanciuniv.edu</i>
Research Area Keywords	<i>Molecular Basis of Human Diseases, Cancer Biology, Drug Research, Nano Diagnostics, Nano Medicine, Cellular Stress, Autophagy.</i>
Current Research Activities	<p><i>The Gözüaçık Lab Focuses on "cellular stress and death response mechanisms". In particular, regulation mechanisms of stress-related autophagy responses, novel autophagy protein and pathway discovery, the role of autophagy abnormalities in human diseases (especially neurodegenerative diseases and cancer), novel cancer diagnosis methods and innovative drug discovery.</i></p>

GÖZDE İNCE (FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9878</i>
E-Mail	<i>gozdeince@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/gozdeince/</i>
Research Area Keywords	<i>Organic and Inorganic Thin Films, Chemical Vapor Deposition, Fabrication and Characterization of Polymer Nanostructures, Functional Coatings.</i>
Current Research Activities	<i>Our current research focuses on stimuli-responsive polymer thin-films and nanostructures. We develop different types of stimuli-responsive polymers and study their response behavior under different conditions. In addition to these fundamental studies, we also fabricate thin-films and polymer nanostructures with optimized response characteristics for various applications, including drug-delivery, biological sensors, responsive coatings and separation membranes.</i>

**ALİ KOŞAR (CO-DIRECTOR FOR CENTER OF EXCELLENCE
FOR FUNCTIONAL SURFACES AND INTERFACES,
FACULTY MEMBER)**

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9621</i>
E-Mail	<i>kosara @sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/~kosara/</i>
Research Area Keywords	<i>Micro and Nano Scale Heat Transfer, Micro and Nano Flows, Boiling Heat Transfer, Cavitation, Microfluidics, Nanofluids, Micro Heat Sinks.</i>
Current Research Activities	<i>Ali Koşar is one of few pioneers in the design and development of new generation micro heat sinks and microfluidic devices. His research interests constitute a spectrum covering heat and fluid flow on a micro/nano scale, forced convection, multi-phase flow, and cavitation. He has broad experience and knowledge on various types of experiments on heat and fluid flow and phase change phenomena on the micro/nano scale. His research made significant contributions to the scientific knowledge in heat and fluid flow in the micro/nano domains. The results of his research have already generated many published journal research articles which have been published in prestigious journals like Microfluidics and Nanofluidics, Applied Physics Letters, Journal of Heat Transfer, Journal of Microelectromechanical Systems and the International Journal of Heat and Mass Transfer.</i>

ÖZLEM KUTLU (RESEARCHER)

Area	<i>Molecular Biology and Genetics</i>
Phone	<i>90 (216) 483 9000- 2413</i>
E-Mail	<i>ozlemkutlu@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/ozlemoral/</i>
Research Area Keywords	<i>Molecular Cell Biology, Human Genetic Disease, Cell Death Mechanisms, Nanomedicine.</i>
Current Research Activities	<i>Molecular Mechanism of Rare Human Genetic Disease, Drug Delivery Research with Biodegradable Nanoparticles.</i>

BURÇ MISIRLIOĞLU (CO-DIRECTOR FOR CENTER OF EXCELLENCE FOR FUNCTIONAL SURFACES AND INTERFACES, FACULTY MEMBER)

Area	<i>Materials Science and Nano Engineering</i>
Phone	<i>90 (216) 483 9562</i>
E-Mail	<i>burc@sabanciuniv.edu</i>
Web	<i>http://people.sabanciuniv.edu/burc/</i>
Research Area Keywords	<i>Ferroelectricity, Thin Films, Devices.</i>
Current Research Activities	<i>Ferroelectric Based Solid State Memory, Phase Transitions in Thin Films, Functionally Graded Structures, Nanomagnetism.</i>

ASIF ŞABANOVIÇ (EMERITUS PROFESSOR)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9529</i>
E-Mail	<i>asif@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/asif/</i>
Research Area Keywords	<i>Nonlinear and Motion Control Systems, Mechatronics, Micro/ Nano Mechatronics Systems, Automation and Robotics, Power Electronics.</i>
Current Research Activities	<i>Currently projects in micro-part manipulation, bilatlar control with variable time delay, design and control of flexure based nano-positioners, software for reconfigurable real time motion control systems, hierarchy and dynamical decoupling in multi-body motion control systems are under way.</i>

KÜRŞAT ŞENDUR (FACULTY MEMBER)

Area	<i>Mechatronics Engineering</i>
Phone	<i>90 (216) 483 9527</i>
E-Mail	<i>sendur@sabanciuniv.edu</i>
Web	<i>myweb.sabanciuniv.edu/sendur/</i>
Research Area Keywords	<i>Electromagnetic Theory, Nano-Optics, Interaction of Photons with Nanostructures, Surface Plasmons, Computational Electromagnetics, Heat Transfer Modeling, Thermal Analysis, Heat-Sink Design, Thermal Management, Heat Assisted Magnetic Recording, Magnetic and Optical Data Storage.</i>
Current Research Activities	<i>Current research activities include nano-optical transducers, heat assisted magnetic recording, near-field optics, electromagnetics, near-field radiative heat transfer, nano-antennas, modeling, design and manufacturing of nano-optical systems.</i>

MELTEM SEZEN (RESEARCHER)

Area	<i>Materials Science and Engineering, Electron Microscopy</i>
Phone	<i>90 (216) 483 9886</i>
E-Mail	<i>meltemsezen@sabanciuniv.edu</i>
Web	<i>http://myweb.sabanciuniv.edu/meltemsezen/</i>
Research Area Keywords	<i>Focused Ion Beam (FIB) Technologies, Scanning Electron Microscopy (SEM), 3D Electron Tomography, Nanostructuring and Nanofabrication using Dual-Beam Platforms, Fabrication and Characterization of Organic Optoelectronic Devices, Advanced Electron Microscopy Applications for Dentistry and Food Engineering, Raman Microscopy and Spectroscopy, Hydrogen Storage Materials.</i>
Current Research Activities	<i>Nanofabrication using Focused Electron and Ion Beams, Electron Microscopy and Spectroscopy Based Characterization, Expertise in TEM Specimen Preparation via Dual-Beam Platforms, Development of Novel 3D TEM Sample Structuring Methodologies and Advanced FIB and TEM Tomography Applications for Nanoporous Materials (COST MP1103 Action), Development of Functional Surfaces on Polymeric Materials using Electron and Ion Beam (FEB-FIB) Modification (COST CM1301 Action), Advanced FIB/SEM and Raman Based Nanoanalysis Studies for Preventive Dentistry.</i>

MURAT KAYA YAPICI (FACULTY MEMBER)

Area	<i>Electronics Engineering</i>
Phone	<i>90 (216) 483 9553</i>
E-Mail	<i>mkyapici@sabanciuniv.edu</i>
Web	<i>http://mems.sabanciuniv.edu/</i>
Research Area Keywords	<i>Microelectromechanical System (MEMS), Micromachining and Micro/Nanofabrication Technologies, Micro Sensors and Actuators, Semiconductor Process Technologies, Scanning Probe-based Nanotechnology and Nanomanufacturing, Biomedical Microsystems and Devices, Microfluidic Systems, MEMS-CMOS, and Nanomaterial Integration.</i>
Current Research Activities	<p><i>At Sabanci University Micro/Nano Systems & Devices Lab (SU-MEMS), we employ our broad expertise in micro/nanofabrication technologies and develop miniaturized devices, sensors & actuators in an effort to solve interdisciplinary problems in biomedical sciences, electronics, and nanotechnology.</i></p> <p><i>We have four research AREAs:</i></p> <p><i>Micro/Nano Electro Mechanical Systems (M/NEMS), Micro Sensors and Actuators</i></p> <p><i>Novel Micro/Nanofabrication Techniques, Scanning Probe-based Nanotechnology</i></p> <p><i>Biosensors, Biomedical Microsystems, Devices, and Microfluidic Systems</i></p> <p><i>Electronic Devices, CMOS-MEMS Nanomaterial (e.g. graphene) Integration.</i></p>



Sabancı Üniversitesi
Orta Mahalle, Tuzla
34956 İstanbul / Turkey
+90 216 483 90 00
info@sabanciuniv.edu
sabanciuniv.edu