Organizing Committee

Mohammed Al-Hashimi (Committee Co-Chair)

Research Associate Professor
Texas A&M University at Qatar
Education City, Qatar
Email: mohammed.al-hashimi@qatar.tamu.edu

Dr. Mohammed Al-Hashimi, PhD, FRSC received his MSci Honors degree in Pharmaceutical Chemistry in 2003, followed by a PhD in 2007, from Queen Mary University of London, UK. He subsequently worked as a Senior Development Chemist at Evotec, Oxfordshire, UK and later joined the Chemistry Department at Imperial College London as a Postdoc in 2008. Before joining TAMQ in 2013, Al-Hashimi in 2012 worked at Qatar University as an Assistant Professor.

Al-Hashimi currently serves on the editorial board of the journals *Current Organic Chemistry* and *Current Organocatalysis.* He has significant project management experience in industrial and academic settings, with direct experience in corporate research and customer-focused business units and managing grants in the UK and Qatar. Al-Hashimi has published over 90 peer-reviewed papers and holds four patents. He is a recipient of the Donald C. Bradley Prize, the ASPIC Prize, the Lefevre Prize, the ACMME Research Prize, and the Best Research Presentation Award in Energy and Environment Pillar ARC16. Most recently, he was awarded the TAMUQ Faculty Research Excellence Award and was named a Fellow of the Royal Society of Chemistry (FRSC). He is currently the International Chair for the American Chemical Society Qatar Chapter.

Al-Hashimi's research team focuses on the synthesis of organic polymers, particularly the design and synthesis of organic semiconductor materials for a range of optoelectronic applications, including field-effect transistors, photovoltaic devices, and light-emitting diodes and sensors. His interests also include synthesis of recoverable, reusable homogeneous, and heterogeneous catalysts.

Dhabia Al-Mohannadi (Committee Co-Chair)

Engineering Assistant Professor
Texas A&M University at Qatar
Education City, Qatar
Email: Dhabia.Al-Mohannadi@qatar.tamu.edu

Dhabia Al-Mohannadi, Engineering Assistant Professor in the Chemical Engineering Department at Texas A&M university at Qatar. Dhabia's research work focuses on the systematic design of sustainable industrial parks under carbon dioxide limits, resource management, and climate policies evaluation. Her work deals with multidisciplinary problems that involves different decision-making processes, engineering and economics. Her research leads to developing analytical tools that can assess flexibility, robustness, reliability of process systems at the design and operational level. Her research resulted in over 30 published works including peer reviewed journals, conference proceedings and book chapters. Dhabia serves on the Board of Qatar Women Engineering Association, the Arab Climate Youth Movement. She is also a member of the Qatar Petroleum Engineering Society, the American Chemical Engineering Institute, and the American Chemical Society. Dhabia is a graduate of Qatar Rising Leaders Program. She obtained her PhD from TAMU in 2018, where she was a Qatar Research Leadership Program (QRLP) Fellow. During her studies she was the winner of the Oryx GTL Qatar Post-Graduate Award for Masters Student Future Research Leaders in Qatar in 2016 and PhD Student in 2018 as well as the recipient of HH Tamim Bin Hamad Al-Thani, Emir of Qatar, 2019 Education Excellence Award.

Umut A. Gurkan (Committee Co-Chair)

Wilbert J. Austin Professor of Engineering
Case Western Reserve University
Cleveland, Ohio
Email: umut@case.edu

Umut A. Gurkan, Ph.D., is the Wilbert J. Austin Professor of Engineering with tenure at Case Western Reserve University. Dr. Gurkan holds BS degrees in Chemical Engineering and Mechanical Engineering from the Middle East Technical University in Turkey and a Ph.D. in Biomedical Engineering from Purdue University. He completed his postdoctoral training at Harvard Medical School and Harvard-MIT Health Sciences and Technology. Dr. Gurkan's research is on global equitable access to diagnostics and personalized health. Dr. Gurkan is a leader in efficiently translating microfluidics and point-of-care diagnostics for blood disorders and cancer. He has led international clinical studies on sickle cell disease research in the United States, Africa, Southeast Asia, and India. Dr. Gurkan has authored over 95 peer-reviewed journal articles. His research has been supported by the NSF, NIH, DoD, non-profit organizations, and several industrial partners. Dr. Gurkan's inventions have led to 13+ issued US patents and four successful biotechnology companies to date with products in global markets. Dr. Gurkan's innovations won numerous awards, including USPTO Patents for Humanity recognition and USFDA Breakthrough Device Designation. His honors include National Science Foundation CAREER Award, the American Society for Engineering Education Curtis W. McGraw Research Award Finalist, Translational Research Featured New Investigator Award, the Biomedical Engineering Society Rising Star Award, MIT Technology Review Innovator Under 35 Award, the Doris Duke Innovations in Clinical Research Award, and NHLBI featured him in Today's Faces of Sickle Cell Disease. Dr. Gurkan is a member of the Global Gene Therapy Initiative, American Society of Mechanical Engineers, Biomedical Engineering Society, and American Society of Hematology. Dr. Gurkan is a Senior Member of the National Academy of Inventors (NAI), a member of the New Voices in Science, Engineering and Medicine Program by the National Academies of Sciences, Engineering, and Medicine (NASEM), and a fellow of the American Institute for Medical and Biological Engineering (AIMBE).

Saif Al-Kuwari

Assistant Professor
Hamad Bin Khalifa University, College of Science and Engineering
Education City, Qatar
Email: smalkuwari@hbku.edu.qa

Dr. Saif Al-Kuwari received a Bachelor of Engineering in Computers and Networks from the University of Essex (UK) in 2006 and two PhD's from the University of Bath and Royal Holloway, University of London (UK) in Computer Science, both in 2012. He is currently an Assistant Professor at the College of Science and Engineering at Hamad Bin Khalifa University and the Director of the Qatar Center for Quantum Computing (QC2). Previously, he was the Director of the Department of Information Technology (2013 – 2018) at the Ministry of Foreign Affairs, Qatar. His research interests include quantum computing, cryptography, computational forensics, and their connections with machine learning. He is IET and BCS fellow, and IEEE and ACM senior member.

Dana Alsulaiman

Assistant Professor of Material Science and Bioengineering
King Abdullah University of Science and Technology
Thuwal, Saudi Arabia
Email: dana.alsulaiman@kaust.edu.sa

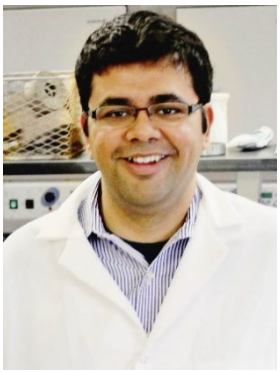
Dr. Dana Alsulaiman is an Assistant Professor of Material Science and Bioengineering at King Abdullah University of Science and Technology (KAUST). Her group focuses on developing advanced biomaterials and next-generation technologies for minimally-invasive disease diagnosis and personalized therapy. Her research includes advancements in encoded hydrogel microparticles, stimuli-responsive microneedles, and point-of-care optical and electrochemical biosensors. Dr Alsulaiman completed her PhD in Bioengineering at Imperial College London, supported by the prestigious President's PhD Scholarship. In 2019, Dr Alsulaiman moved to the USA to pursue her postdoctoral training in the Department of Chemical Engineering at MIT. She is the recipient of multiple prestigious awards including the 2016 Bronze Medal at the STEM for Britain National Competition, the Institute of Engineering and Technology (IET) Healthcare Technologies Award (2019), and MIT Technology Review's Innovator's Under 35 Award (2021).

Dena Al-Thani
Associate Professor and Director of Interdisciplinary Programs
Hamad bin Khalifa University, College of Science and Engineering
Education City, Qatar
Email: dalthani@hbku.edu.qa

Dr. Dena Al-Thani is currently an Associate Professor and the Director of Interdisciplinary Programs at the College of Science and Engineering at Hamad Bin Khalifa University. Dr. Al-Thani was awarded her Ph.D. in Computer Science from the Queen Mary University of London; her thesis specialized in human-computer interaction and inclusive design. She has obtained a Postgraduate Certificate in Learning and Teaching in Higher Education, and she is an Associate Member of the Higher Education Academy in the UK. She is keen to see the impact of her research on inclusion and accessibility in Qatar and the world. To that end, she is a member of the World Health Organization (WHO) Technical Advisory Group on Assistive Technology and the Arab ICT Accessibility Expert Group, an initiative by Mada.

Sarbajit Banerjee

Davidson Chair Professor of Chemistry and Materials Science and Engineering
Texas A&M University
College Station, United States
Email: banerjee@chem.tamu.edu



Sarbajit Banerjee, FRSC, FInstP is the Davidson Chair Professor of Chemistry, Professor of Materials Science and Engineering, and Chancellor EDGES Fellow at Texas A&M University. His research interests are focused on electron correlated solids, electronic structure studies at interfaces, energy conversion and storage, energy efficient computation, multifunctional coatings, and the development of synchrotron spectroscopy and imaging methods. His research accomplishments have been recognized by the National Science Foundation CAREER Award (2009), the American Chemical Society ExxonMobil Solid-State-Chemistry Faculty Fellowship (2010), a Cottrell Scholar Award (2011), and the Journal of Physical Chemistry Lectureship (2013). In 2012, MIT Technology Review named Sarbajit to its global list of “Top 35 innovators under the age of 35” for the discovery of thermochromic ceramics that are allowing for significant reductions of the energy utilization of buildings. He was named by the Institute of Materials,

Minerals, and Mining (IOM3) as the recipient of the Rosenhain Medal and Prize in 2015 and was awarded the Beilby Medal and Prize by IOM3, Royal Society of Chemistry, and the Society for Chemistry & Industry in 2016. He was named by NASA as an Innovative Advanced Concepts (NASA NIAC) Fellow in 2021. He has received two separate Special Creativity Extension Awards from the National Science Foundation (2020 and 2021).

Enrico Castillo

Assistant Professor and Associate Vice Chair for Justice, Equity, Diversity, and Inclusion
University of California, Los Angeles
Los Angeles, United States
Email: EGCastillo@mednet.ucla.edu

Dr. Enrico Castillo is a physician (community psychiatrist) and health services and policy researcher. He is an Assistant Professor and the Associate Vice Chair for Justice, Equity, Diversity, and Inclusion in the UCLA Department of Psychiatry and a NASEM New Voices Cohort II member (2021-23). His clinical and research work centers on homelessness, incarceration, and mental illness, specifically on enhancing the capacity of public systems to better address social determinants of health. He is also an expert in community engagement, health equity, and anti-racism in medical research and education policy. He has developed community-public-academic research and educational partnerships with over 20 community-based organizations and national, state, and local health agencies. He served as the Co-Chair for the UCLA COVID-19 Health Equity Research and Advisory Committee and has published on strategies to enhance the community impact of research for populations that are historically excluded, marginalized, and under-represented in biomedical research, especially Black, Latinx, and Indigenous communities. He received his undergraduate degree from the University of Virginia and his medical degree from the University of Pittsburgh School of Medicine. He completed his psychiatry residency training and public/community psychiatry clinical fellowship at Columbia University. He received his Masters in Health Policy and Management from the UCLA Fielding School of Public Health and completed his health services / health policy post-doctoral research training at UCLA's Robert Wood Johnson Foundation Clinical Scholars Program.

Roozbeh Jafari

Tim and Amy Leach Professor
Texas A&M University
College Station, United States
Email: rjafari@tamu.edu

Roozbeh Jafari is the Tim and Amy Leach Professor of Biomedical Engineering, Computer Science and Engineering and Electrical and Computer Engineering at Texas A&M University. He received his Ph.D. in Computer Science from UCLA and completed a postdoctoral fellowship at UC-Berkeley. His research interest lies in the area of wearable computer design and signal processing. He has raised more than $86M for research with $23M directed towards his lab. His research has been funded by the NSF, NIH, DoD (TATRC), DTRA, DIU, AFRL, AFOSR, DARPA, SRC and industry (Texas Instruments, Tektronix, Samsung & Telecom Italia). He has published over 200 papers in refereed journals and conferences. He has served as the General Chair and Technical Program Committee Chair for several flagship conferences in the areas of wearable computers. Dr. Jafari is the recipient of the NSF CAREER award (2012), IEEE Real-Time & Embedded Technology & Applications Symposium Best Paper Award (2011), Andrew P. Sage Best Transactions Paper Award (2014), ACM Transactions on Embedded Computing Systems Best Paper Award (2019), and the Outstanding Engineering Contribution Award from the College of Engineering at Texas A&M (2019). He has been named Texas A&M Presidential Fellow (2019). He serves on the editorial board for the Nature Digital Medicine, IEEE Transactions on Biomedical Circuits and Systems, IEEE Sensors Journal, IEEE Internet of Things Journal, IEEE Journal of Biomedical and Health Informatics, IEEE Open Journal of Engineering in Medicine and Biology, and ACM Transactions on Computing for Healthcare. He is currently the Chair of the IEEE Wearable Biomedical Sensors and Systems Technical Committee (elected) as well the IEEE Applied Signal Processing Technical Committee (elected). He serves on scientific panels for funding agencies frequently, served as a standing member of the NIH Biomedical Computing and Health Informatics (BCHI) Study Section (2017-2021), and was the Inaugural Chair of the NIH Clinical Informatics and Digital Health (CIDH) Study Section (2020-2022). He is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE).