

## Pamela Bhatti



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### **Biography**

Pamela Bhatti is an Associate Professor of Electrical & Computer Engineering at the Georgia Institute of Technology and an Adjunct Professor of Rehabilitative Medicine with the Emory School of Medicine. She serves as the Georgia Tech Research, Education & Career Development Director for the Georgia Clinical & Translational Science Alliance, and on the Faculty Steering Committee for the Georgia Tech CREATE-X program. Pamela received her B.S. in Engineering Science (Bioengineering) from the University of California, Berkeley (1989), her M.S. in Electrical Engineering from the University of Washington (1993), and her Ph.D. in Electrical Engineering from the University of Michigan, Ann Arbor (2006) with an emphasis on biomedical applications of Micro-electro Mechanical Systems (Bio-MEMS). Before completing her Ph.D., Pamela's industry experience includes Microware Corporation, Des Moines, IA (1996-1997); Motorola Semiconductor, Austin, TX (1994-1995); and Alza Corporation, Palo Alto, CA (1986-1990). Pamela received the NSF CAREER Award (2011) and the Georgia Tech Class of 1934 Outstanding Interdisciplinary Activity Award (2017). She is the co-founder of Camerad Technologies (2016), a startup dedicated to increasing throughput and reducing errors in radiology imaging studies.

## Nisha Botchwey



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### **Biography**

Nisha Botchwey is an Associate Professor of City and Regional Planning at the Georgia Institute of Technology and an adjunct professor in Emory University's School of Public Health. An expert in health and the built environment as well as community engagement, she holds graduate degrees in both urban planning and public health. Dr. Botchwey co-directs the National Physical Activity Research Center, PARC, both the Atlanta Neighborhood Quality of Life and Health Dashboard and the data dashboard for Health, Environment and Livability for Fulton County, and directs the Built Environment and Public Health Clearinghouse.

Dr. Botchwey's research focuses on health and the built environment, health equity, community engagement, and data dashboards for evidence-based planning and practice. She is co-author of Health Impact Assessment in the USA (2014), convener of a national expert panel on interdisciplinary workforce training between the public health and community design fields, and author of numerous articles, scientific presentations and workshops. Dr. Botchwey has won distinctions including an NSF ADVANCE Woman of Excellence Faculty Award, a Hesburgh Award Teaching Fellowship from Georgia Tech and the Georgia Power Professor of Excellence Award, a Rockefeller-Penn Fellowship from the University of Pennsylvania's School of Nursing and a Nominated Changemaker by the Obama White House' Council on Women and Girls. She has also served on the Advisory Committee to the Director for the Centers of Disease Control Prevention, is a Social Sciences Panel Member for the Ford Foundation's Fellowship Program, and member of the Voices for Healthy Kids Strategic Advisory Committee for the American Heart Association.

## Shatakshee Dhongde



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### **Biography**

Shatakshee Dhongde is an Associate Professor of Economics and a Provost Teaching-Learning Fellow at Georgia Tech. She obtained her Ph.D. from the University of California, Riverside. She is also a research affiliate with the Institute of Research on Poverty at the University of Wisconsin, Madison. Her research has focused on studying economic growth, inequality, poverty and multidimensional deprivation. She was awarded the Nancy and Richard Ruggles Prize for young researchers by the International Association of Review of Income and Wealth (IARIW). Her work has been published in several leading economics journals. Her research on measuring deprivation in the U.S. has been highlighted in national media, including PR. She is the recipient of multiple teaching awards at Georgia Tech.

## Keith Edwards



### **Professor and Director, GVV Center**

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### **Biography**

Keith Edwards is a Professor in the School of Interactive Computing, and the Director of the GVV Center, one of Georgia Tech's oldest Interdisciplinary Research Centers. His research interests focus primarily on human-computer interaction; more specifically, he's interested in how human perspectives can inform the design of technical infrastructure, and likewise how infrastructure design influences and impacts the uses of technology, at both the individual and societal level. Outside the university, he has served in a number of advisory and consulting roles, including on Microsoft's Trustworthy Computing Academic Advisory Board. Prior to joining the faculty at Georgia Tech, he was a Principal Scientist at Xerox PARC (Palo Alto Research Center), where he worked for nearly ten years. During his time there he managed PARC's Ubiquitous Computing group and made key contributions to PARC's technology licensing and commercialization activities.

## Michael Goodisman



### **Associate Professor and Associate Chair for Undergraduate Education**

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### **Biography**

Michael Goodisman is an Associate Professor and Associate Chair for Undergraduate Education in the School of Biological Sciences. He received his BA from Cornell University in genetics & development. He conducted postdoctoral research as a National Science Foundation postdoctoral fellow in genetics at James Cook University and as a National Institutes of Health fellow in genomics at the University of Arizona. He joined the School of Biology at Georgia Tech in 2004. Dr. Goodisman's research focuses on understanding the causes and consequences of sociality. He studies how advanced social systems evolved and how social animals successfully operate in their environment. Dr. Goodisman's primary research subjects are the social insects. Social insects, such as yellow jacket wasps, are remarkable and successful because they display extreme cooperative and helping behaviors. Thus social insects represent key models for studying social behavior. Dr. Goodisman's teaching interests include subjects such as Genetics, Evolution, Behavior, and Bioethics.

## Steve Harmon



### **Professor and Associate Dean of Research, Georgia Tech Professional Education**

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### **Biography**

Dr. Stephen Harmon serves as associate dean of research at Georgia Tech Professional Education (GTPE), director of educational innovation at Center for 21st Century Universities (C21U), and as professor at the Georgia Tech College of Design. At GTPE and C21U, he leads the invention, prototyping, and validation efforts associated with educational innovation and with managing facilities available to all Georgia Tech researchers and faculty members.

His previous position was professor and chair of the Learning Technologies Division in the College of Education and Human Development at Georgia State University.

After majoring in English literature at Furman University, Dr. Harmon moved to Upper Egypt to teach fourth-grade English for two years. While traveling through the Middle East and Africa, he realized the tremendous need, and scarce resources, for education and training in developing countries. He returned to the U.S. and earned a masters and doctorate in instructional technology, with a cognate in global policy studies, from the University of Georgia.

Dr. Harmon's research centers on educational uses of emerging technologies and has, for the last few years, focused on eLearning, particularly with respect to synchronous, online learning environments. He is a past president of the Association of Educational Communications and Technology, an international professional association of thousands of educators and others whose activities are directed toward improving instruction through technology.

Dr. Harmon has over 120 professional publications and presentations and was the 2011 recipient of Georgia State University's Innovative Instruction Award. He was the spring 2016 commencement speaker at Georgia Southern University.

## Michael Hunter



### **Professor**

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### **Biography**

Dr. Hunter is an Associate Professor at the School of Civil and Environmental Engineering at Georgia Institute of Technology. His primary teaching and research interests are in transportation operations and design, specializing in adaptive signal control, traffic simulation, freeway geometric design, and arterial corridor operations. Dr. Hunter obtained his B.S. in Civil Engineering from Rensselaer Polytechnic University (1992), his M.S. in Civil Engineering from the University of Texas at Austin (1994), and his Ph.D. in Civil Engineering from the University of Texas at Austin (2003). After obtaining his M.S. he worked as a transportation engineer for several years at the Sear-Brown Group in Rochester, NY. He has conducted numerous traffic impact studies, signal timing projects, freeway operation evaluations, toll plaza analyses, etc.

## Xiaoming Huo



### Professor

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### Biography

Xiaoming Huo is a professor at the Stewart School of Industrial & Systems Engineering at Georgia Tech, which he joined in 1999 immediately after obtaining his PhD in statistics at Stanford University. Dr. Huo was a visiting Fellow at the Institute for Pure and Applied Mathematics (IPAM) at the University of California, Los Angeles in the fall of 2004, and a visiting fellow at The Statistical and Applied Mathematical Sciences Institute (SAMS: [samsi.info](http://samsi.info)) in Fall 2016. From August 2013 to August 2015, he served in the US National Science Foundation as a Program Director in the Division of Mathematical Sciences (DMS). Dr. Huo has delivered keynote presentations in major conferences. His research interests include statistical theory, statistical computing, and issues related to data analytics. He has made numerous contributions on topics such as sparse representation, wavelets, and statistical problems in detectability. His papers appeared in top journals, and some of them are highly cited. He is a senior member of IEEE. He won the Georgia Tech Sigma Xi Young Faculty Award in 2005. His work has led to an interview by Emerging Research Fronts in June 2006 in the field of Mathematics - every two months, one paper is selected. Huo is a fellow of ASA and an Associate Editor of Technometrics. Dr. Huo has organized/co-organized sessions/workshop in various statistical conferences. He is now the Executive Director of TRIAD (Transdisciplinary Research Institute for Advancing Data Science), <http://triad.gatech.edu>, and an NSF funded research center located at Georgia Tech and is aiming at building a theoretical foundation of data science. He's also actively involved in the Center for Statistical Science--<http://www.statistics.gatech.edu/>--at Georgia Tech, shaping its strategic plans. Dr. Huo is an Associate Director in the program of the Master of Science in Analytics -- <https://analytics.gatech.edu/> -- being in charge of creating a new branch in the upcoming Shenzhen-China campus of Georgia Institute of Technology.

## Margaret Kosal



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### **Biography**

Dr. Margaret E. Kosal is Associate Professor in the Sam Nunn School of International Affairs at Georgia Institute of Technology, where she is the Director of the Sam Nunn Security Program and the Program on Emerging Technology and Security. She was recently appointed faculty in the Parker H. Petit Institute for Bioengineering and Bioscience at Georgia Tech. Her research explores the relationships among technology, strategy, and governance. She focuses on two, often intersecting, areas: reducing the threat of weapons of mass destruction (WMD) and understanding the geopolitics of emerging technologies. She is the author of *Nanotechnology for Chemical and Biological Defense*, which explores scenarios, benefits, and potential proliferation threats of nanotechnology and other emerging sciences, and editor of the volume, *Technology and the Intelligence Community: Challenges and Advances for the 21st Century*. Formally trained as an experimental scientist, Kosal earned a doctoral degree in Chemistry from the University of Illinois at Urbana-Champaign (UIUC) working on biomimetic and nano-structured functional materials. She is also the co-founder of a sensor company, where she led research and development of medical, biological, chemical sensors and explosives detection. During AY 2016-2017, she served as a Senior Adjunct Scholar to the Modern War Institute at West Point. Kosal previously has served as a Senior Advisor to the Chief of Staff of the U.S. Army, as Science and Technology Advisor within the Office of the Secretary of Defense (OSD), and as an Associate to the National Intelligence Council (NIC). She is the recipient of multiple awards including the Office of the Secretary of Defense Award for Excellence and most recently honoured as Georgia Power Professor of Excellence. In January 2017, she was appointed the Editor-in-Chief of the Cambridge University Press journal, *Politics and the Life Sciences*.

## Aaron Levine



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### **Biography**

Aaron D. Levine is an Associate Professor in the School of Public Policy at Georgia Tech and a Guest Researcher in the Division of Reproductive Health at the Centers for Disease Control and Prevention. He is also Co-Director for Engineering Workforce Development for the NSF Engineering Research Center for Cell Manufacturing Technologies (CMA<sup>T</sup>). His research focuses on the intersection between public policy and bioethics. Much of his recent work has examined the development of stem cell science, particularly research using human embryonic stem cells, and the translation of novel cell therapies. He also writes extensively on the oversight of contentious areas of medicine, such as assisted reproductive technology. In 2012, he received a five-year NSF CAREER award to examine the impact of ethical controversy on graduate science education and the development of scientific careers.

He is the author of *Cloning: A Beginner's Guide* (Oneworld Publications, 2007), an accessible introduction to the science of cloning and embryonic stem cells and the ethical and policy controversies this science inspires. Aaron completed his Ph.D. in Public Affairs at Princeton University, where his dissertation research examined the impact of public policy on the development of human embryonic stem cell science. He also holds an M. Phil. from the University of Cambridge, where, as a Churchill Scholar, he studied computational biology at the Sanger Centre and developed algorithms to help analyze the human genome sequence, and a B.S. in Biology from the University of North Carolina at Chapel Hill, where he was a Morehead Scholar.

## Raquel Lieberman



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### Biography

Raquel Lieberman is an Associate Professor in the School of Chemistry and Biochemistry. Dr. Lieberman's research program is focused on understanding human diseases in which proteins in the body adopt an incorrect structure that renders them unable to carry out their normal function. One major long-term project deals with the eye disease, glaucoma. Another project deals with molecular details of Alzheimer disease. The work is leading to new therapeutic directions to treat these prevalent age-onset diseases. Her other research interests include the molecular details of how cells survive by recognizing and responding to intracellular signals.

She holds a B. S. from Massachusetts Institute of Technology (1998), a M. S. from Northwestern University (1999) as well as a Ph. D. from Northwestern University (2005). She served as a Postdoctoral Research Fellow at Harvard Medical School and Brigham & Women's Hospital for Brandeis University (2005-2007).

## Jean Lynch-Stieglitz



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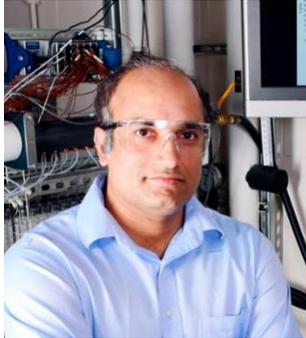
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### Biography

Jean Lynch-Stieglitz joined the faculty in the School of Earth and Atmospheric Sciences at Georgia Tech in 2003. She currently serves as Professor and Associate Chair in the school. Her research group investigates changes in past ocean circulation and climate, combining geochemical methods for gathering data on the state of the past ocean with the analytical tools and approaches of modern oceanography. This work has helped in understanding the full range of behavior possible for the ocean/climate system. In 2015 she was elected Fellow of the American Association for the Advancement of Science in recognition of her work on ocean circulation changes over the transition out of the last ice age.

She graduated from Duke University with a B.S. in Geology and Physics in 1986 after which she worked for several years as a computer programmer in support of oceanographic research teams. She received her Ph.D. in 1995 from Columbia University and was a post-doctoral fellow at the Woods Hole Oceanographic Institution before serving on the faculty at Columbia University from 1996-2003. She served as Editor of Earth and Planetary Science Letters from 2012-2015.

## Devesh Ranjan



### **Associate Professor and J. Erskine Love Jr. Faculty Fellow**

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### **Biography**

Dr. Devesh Ranjan is an Associate Professor and J. Erskine Love Jr. Faculty Fellow in the GWW School of Mechanical Engineering at Georgia Tech. He was previously a director's research fellow at Los Alamos National Laboratory (2008) and Morris E Foster Assistant Professor in the Mechanical Engineering department at Texas A&M University (2009-2014). He earned a bachelor's degree from the NIT-Trichy (India) in 2003, and master's and Ph.D. degrees from the UW-Madison in 2005 and 2007 respectively, all in mechanical engineering.

His research program focuses on the shock-driven mixing and combustion, the physics of hydrodynamic instabilities, and advanced power conversion cycles. He is a recipient of National Science Foundation CAREER Award and US AFOSR Young Investigator Award in 2013. He was the first Georgia Tech recipient of the DOE-Early Career Award in 2016. His group has published more than 100 papers in journals and conferences. He was an invited participant in the 2016 National Academy of Engineering's US Frontiers of Engineering Symposium.

He was the Joint-Secretary for the International Shock Wave Institute and served as the co-chair for the 29th International Symposium on Shock Waves (ISSW). He is currently an Associate Editor of ASME Journal of Fluids Engineering and serves on the Editorial board of Shock Waves (Publisher-Springer & Verlag). Currently he is the member of External Affairs Committee of APS-Division of Fluid Dynamics. He has received several awards for his efforts and effectiveness in teaching, including CATERPILLAR Teaching Excellence Award, Texas A&M ASME Professor Mentorship Award and recently named 2018-2020 Provost Teaching and Learning Fellow.

## Christopher Rozell



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### Biography

Christopher J. Rozell received a B.S.E. degree in Computer Engineering and a B.F.A. degree in Music (Performing Arts Technology) in 2000 from the University of Michigan. He attended graduate school at Rice University, receiving the M.S. and Ph.D. degrees in Electrical Engineering in 2002 and 2007, respectively. Following graduate school he joined the Redwood Center for Theoretical Neuroscience at the University of California, Berkeley as a postdoctoral scholar. Dr. Rozell is currently a Professor in Electrical and Computer Engineering at the Georgia Institute of Technology, where he previously held the Demetrius T. Paris Junior Professorship.

His research interests live at the intersection of machine learning, signal processing, complex systems, computational neuroscience and biotechnology. Dr. Rozell is currently the co-Director of the Neural Engineering Center at Georgia Tech, where his lab is also affiliated with the Center for Signal and Information Processing and the Institute for Robotics and Intelligent Machines. In 2014, Dr. Rozell was one of six international recipients of the Scholar Award in Studying Complex Systems from the James S. McDonnell Foundation 21st Century Science Initiative, as well as receiving a National Science Foundation CAREER Award and a Sigma Xi Young Faculty Research Award. In addition to his research activity, Dr. Rozell was awarded the CETL/BP Junior Faculty Teaching Excellence Award at Georgia Tech in 2013 and the Outstanding Junior ECE Faculty Member Award in 2018.

## Eric Schumacher



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### **Biography**

Dr. Schumacher received his Ph.D. in Psychology in 1998 from the University of Michigan. He spent four years as a post-doctoral fellow in neurology and neuroscience at the University of Pennsylvania and UC Berkeley. He joined Georgia Tech in 2004. Since 2104, Dr. Schumacher has been the Director of CABI. Professor Schumacher researches cognitive control from both psychological and neuroscientific perspectives. Cognitive control allows humans to achieve complex, adaptive, goal-directed behavior and is critical for most human-specific activities. Dr. Schumacher has investigated this topic in a variety of ways and has developed the task file hypothesis to integrate this diverse literature. He has over 40 publications that have been cited more than 5500 times. Eric has been funded by NIH, DOD, DARPA, IARPA, and is currently funded by NSF.

## Valerie Thomas



### **Anderson Interface Professor of Natural Systems**

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### **Biography**

Valerie M. Thomas is the Anderson Interface Professor of Natural Systems in the School of Industrial and Systems Engineering, and in the School of Public Policy at Georgia Tech. Her research is in the area of energy, environment and sustainability, with current projects including electricity system development and biofuel cost and environmental impacts. She has previously worked at Princeton University, Carnegie Mellon University, and as a Congressional Science Fellow. She has a PhD in theoretical physics from Cornell University and a BA from Swarthmore College. She is a Fellow of the American Association for the Advancement of Science and the American Physical Society.