

NEW CAREER DEVELOPMENT CHAIRS



Thomas Heldt

W. M. Keck Career Development Professor in Biomedical Engineering



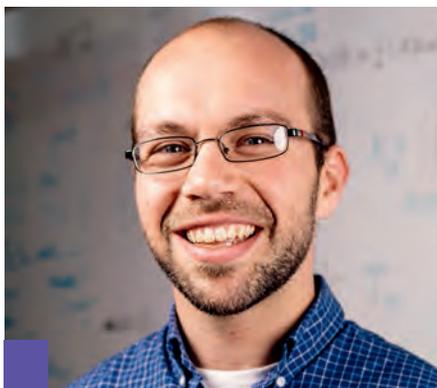
Stefanie Mueller

X-Consortium Career Development Assistant Professor



Max Shulaker

Emmanuel E. Landsman (1958) Career Development Assistant Professor



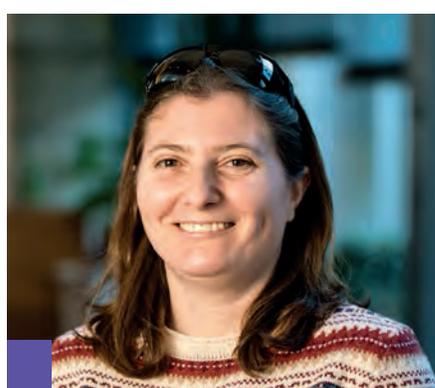
Justin Solomon

X-Window Consortium Career Development Assistant Professor



David Sontag

Hermann L. F. von Helmholtz Career Development Assistant Professor



Virginia Williams

Steven G. (1968) and Renee Finn Career Development Associate Professor

NEW FACULTY



Adam Belay

Belay will join EECS as an assistant professor in July 2017. He received a PhD in computer science from Stanford University, where he was a member of the secure computer systems group and the multiscale architecture and systems team. Previously, he worked on storage virtualization at VMware Inc. and contributed substantial power-management code to the Linux Kernel project. Belay's research area is operating systems and networking. Much of his work has focused on restructuring computer systems so that developers can more easily reach the full performance potential of hardware. He received a Stanford graduate fellowship, a VMware graduate fellowship, and a Jay Lepreau Best Paper award from the USENIX Symposium on Operating Systems Design and Implementation (OSDI).



Stefanie Mueller

Mueller joined EECS as an assistant professor in January 2017. She received a PhD in human-computer interaction (HCI) from the Hasso Plattner Institute in 2016, where she also received a master's degree in IT-systems engineering. In her research, Mueller develops novel interactive hardware and software systems that advance personal fabrication technologies. Her work has been published at the most selective HCI venues — Association for Computing Machinery (ACM), the Conference for Human Factors in Computing Systems (CHI), and User Interface Software and Technology (UIST) — and received a best-paper award and two best-paper nominations. Mueller is an associate chair of the program committees at ACM, CHI, and UIST, and is a general co-chair for the ACM SIGGRAPH Symposium on Computational Fabrication at MIT in June 2017. She has been an invited speaker at MIT, Stanford, the University of California at Berkeley, Harvard, Carnegie Mellon University, Cornell University, Microsoft Research, Disney Research, Adobe Research, and others. In addition, her work has been covered by New Scientist, the BBC, The Atlantic, and The Guardian. Mueller heads the HCI engineering group at MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL), which works at the intersection of human-computer interaction, computer graphics, computer vision, and robotics. She was included in the Forbes "30 Under 30 in Science" list for 2017, and was named an X-Consortium Career Development Assistant Professor in EECS.



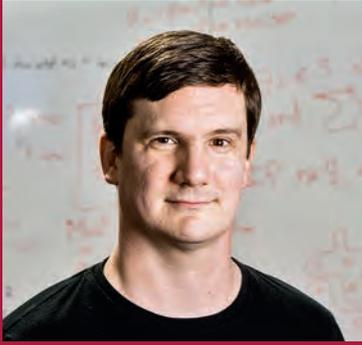
Max Shulaker

Shulaker joined EECS as an assistant professor in July 2016. He received his bachelor's, master's, and PhD degrees in electrical engineering at Stanford, where he was a Fannie and John Hertz Fellow and a Stanford Graduate Fellow. Shulaker's research focuses on the broad area of nanosystems. His Novel Electronic Systems Group aims to understand and optimize multidisciplinary interactions across the entire computing stack — from low-level synthesis of nanomaterials, to fabrication processes and circuit design for emerging nanotechnologies, up to new architectures — to enable the next generation of high performance and energy-efficient computing systems.



David Sontag

Sontag joined EECS in January 2017 as an assistant professor. He is also part of MIT's Institute for Medical Engineering and Science (IMES) and the Computer Science and Artificial Intelligence Laboratory (CSAIL). Before coming to MIT, he had been an assistant professor in computer science and data science at New York University's Courant Institute of Mathematical Sciences since 2011. Previously, he was a postdoc at Microsoft Research New England. Sontag's research interests are in machine learning and artificial intelligence with a recent focus on unsupervised learning, a problem of discovering hidden variables from data, and causal inference, which seeks to estimate the effect of interventions from observational data. At IMES, he will lead a research group that aims to transform health care through the use of machine learning. Sontag received CSAIL's George M. Sprowls award for his PhD thesis at MIT in 2010, best-paper awards at several conference, and a National Science Foundation CAREER Award in 2014. He received a bachelor's degree in computer science from UC Berkeley and master's and PhD degrees in electrical engineering and computer science from MIT. He has been named the Hermann L. F. von Helmholtz Career Development Assistant Professor at IMES.



Ryan Williams

Williams joined MIT as an associate professor in EECS in January 2017. He received a bachelor's degree in computer science and mathematics from Cornell, and a PhD in computer science from Carnegie Mellon. Following postdoctoral appointments at the Institute for Advanced Study (Princeton) and IBM Almaden, he was an assistant professor of computer science at Stanford for five years. Williams' research interests are in the theoretical design and analysis of efficient algorithms and in computational complexity theory, focusing mainly on new connections (and consequences) forged between algorithm design and logical circuit complexity. Along with some best-paper awards, Williams has received a Sloan Research Fellowship, a National Science Foundation CAREER Award, and a Microsoft Research Faculty Fellowship, and he was an invited speaker at the 2014 International Congress of Mathematicians.



Virginia Vassilevska Williams

Williams joined EECS as an associate professor in January 2017. She received a bachelor's degree in mathematics and engineering and applied science from Caltech and a PhD in computer science from Carnegie Mellon. She was a postdoctoral fellow at the Institute for Advanced Study at (Princeton), UC Berkeley, and Stanford. Prior to joining MIT, she spent more than three years as an assistant professor at Stanford. Her research interests are broadly in theoretical computer science, focusing on the design and analysis of algorithms and fine-grained complexity. Her work on matrix multiplication algorithms was covered by the media and was the most cited paper in algorithms and complexity in the last five years. She was named the Steven G. (1968) and Renee Finn Career Development Associate Professor in EECS and was also awarded a Sloan Research Fellowship for work done at Stanford.