New Faculty
2015-16
Welcome

Computer Science and Engineering at the University of Michigan is thriving. Our undergraduate enrollments are at an all-time high and continue to grow, with triple the number of total students and double the percentage of female students enrolled versus five years ago. Our pioneering undergraduate program in Data Science premiered this fall, coinciding with the launch of a campus-wide $100M Data Science Initiative.

During 2015, our faculty and students garnered numerous recognitions for their research and contributions to the advancement of computing technology. Last summer, Michael Stonebraker (MSE ’66, PhD ’71) became the fourth Michigan alum to receive ACM’s prestigious Turing Award. And capping a decade of strategic investment that has doubled the size of CSE at Michigan, eleven outstanding new faculty are joining our ranks this year.

In the pages that follow, I invite you to learn about our exceptional and intellectually diverse new faculty, and to find out how their cutting-edge research in human-machine interaction, machine learning, security, and high-performance computing and networking addresses societal imperatives and promises to transform our world.
Mosharaf Chowdhury
Assistant Professor
PhD, Computer Science, 2015
University of California, Berkeley

Mosharaf’s research interests are in the areas of networked systems and cloud computing. In his dissertation research, Mosharaf has explored and developed algorithms and systems for application-aware scheduling, allocation, and load balancing of networked resources in the context of large-scale data-intensive computing. Mosharaf joins CSE in January 2016.

Reetuparna Das
Assistant Professor
PhD, Computer Science and Engineering, 2010
Pennsylvania State University

Reetu is interested in computer architecture and systems. Her dissertation work on Aergia, a high-performance network-on-chip, was selected to appear in the IEEE Micro “Top Picks” Issue for 2011. Her more recent research focuses on scalable and energy-proportional on-chip networks, 3D integration, and near data processing for big data applications. Currently a research scientist at CSE and Researcher-in-Residence for the Center for Future Architectures Research (C-FAR), Reetu joins CSE as an assistant professor in January 2016.
Ronald Dreslinski  
Assistant Professor  
PhD, Computer Science and Engineering, 2011  
University of Michigan

Ron’s research interests are in novel architectures and design technologies for energy-efficient computing. His doctoral thesis has paved the way for the adoption of near-threshold computer design by industry. In recent years, his research has contributed to the successful demonstration of experimental 3D computer chips that open up new dimensions in the exploration of energy-efficient, high-performance computer design. Previously a research scientist at CSE, Ron joined as assistant professor in Fall 2015.

Odest Chadwicke Jenkins  
Associate Professor  
PhD, Computer Science, 2003  
University of Southern California

Chad is an experimental roboticist focusing on human-robot interaction. His research explores methods that enable robots to learn human skills and in recent years, his work has focused on the exploration of robot systems for assisting disabled people. His work has been supported through prestigious awards, including an NSF PECASE award, an ONR Young Investigator Award, and a Sloan Research Fellowship. Chad joined CSE in Fall 2015 from the faculty at Brown University.
Danai Koutra  
Assistant Professor  
PhD, Computer Science, 2015  
Carnegie Mellon University  

Danai's research interests are in the areas of data mining, graph summarization and visualization, and applied machine learning with an emphasis on fast algorithms for understanding massive graphs. Her dissertation research focused on the design of practical algorithms for understanding local properties. Danai joined CSE in Fall 2015.

Walter Lasecki  
Assistant Professor  
PhD, Computer Science, 2015  
University of Rochester  

Walter's research combines human and machine computation to create intelligent systems that can solve problems ranging from accessibility needs for users with disabilities to rapid analysis of large data sets. He helped to introduce continuous real-time crowdsourcing, in which computer-mediated groups of people submit input simultaneously to create a collective intelligence capable of completing tasks better than any constituent member. Walter joined CSE in Fall 2015.
Since 2011, we have hired 26 outstanding new faculty. Our tenure-track hires conduct pioneering research in machine learning, data mining, analysis and visualization of large-scale data, security, high-performance computing and communications, energy-efficient computing, distributed systems, and human-machine interaction. Our exceptional lecturer hires provide an unparalleled quality of instruction to our students. Leveraging Michigan’s prodigious excellence across the board, our faculty are at the center of cross-disciplinary high-impact research and education efforts with investigators in medicine, public health, social sciences, natural sciences, education, transportation, and engineering.
Christopher Peikert
Associate Professor

PhD, Computer Science, 2006
Massachusetts Institute of Technology

Chris’ research is in the areas of cryptography, lattices, error-correcting codes, algorithms and complexity, and computer and network security. Among several other recognitions of his scholarly contributions, Chris has received a Sloan Foundation Fellowship, a Bergmann Memorial Research Award, and Best Paper awards at EUROCRYPT and STOC. Chris joined CSE in Fall 2015 from the faculty of Georgia Institute of Technology.
Matthew Hicks
Lecturer I
PhD, Computer Science, 2013
University of Illinois

Matthew received his PhD from the University of Illinois at Urbana-Champaign. He was most recently a postdoctoral researcher at CSE, working with Prof. Kevin Fu, where his work focused on projects related to hardware and embedded systems security, intermittently powered systems, and approximate computing. Matthew joined CSE as a lecturer in Fall 2015.

James Juett
Lecturer I
PhD, Computer Science and Engineering, 2015 (exp.)
University of Michigan

James is a PhD candidate at the University of Michigan where he is advised by Prof. Georg Eszl. His research focuses on the use of interactive program visualization tools to create more effective experiences for students in introductory programming education. He is a believer in constructivist principles, the power of active learning, and the idea that you do not have to understand how to teach – you have to understand how students learn. James joins CSE in January 2016.
Amir Kamil
Lecturer III
PhD, Computer Science, 2012
University of California, Berkeley

Amir completed his PhD in 2012 at UC Berkeley. He continued as a postdoctoral scholar and Lecturer at UC Berkeley, teaching the introductory Computer Science course in Spring 2013, and then as a postdoctoral scholar at Lawrence Berkeley National Laboratory. His current research interests include programming languages and models, optimizations, and tools for parallel computing. Amir joined CSE in Fall 2015.

Ilya Volkovich
Lecturer I
PhD, Computer Science, 2012
Technion, Israel Institute of Technology

Ilya’s research interests are in the area of theoretical computer science. He studies the complexity of algebraic problems, the role of randomness in computation, and the limitations of learning algorithms. Ilya received his PhD from Technion, Israel Institute of Technology in 2012. Most recently, he has been a lecturer at the University of Michigan Department of Mathematics and a visiting scholar at CSE. He joined CSE as a lecturer in Fall 2015.
Faculty
- 59 Tenure/Tenure-Track
- 9 ACM Fellows
- 15 IEEE Fellows
- 6 AAAI Fellows
- 4 AAAS Fellows
- 2 SIGCHI Academy
- 1 CSS Fellow
- 8 Sloan Fellows
- 34 NSF CAREER and PECASE awards
- 2 Research Faculty
- 13 Teaching Faculty

Students
- 438 undergraduate degrees, 2014/2015
- 79 MS and PhD degrees, 2014/2015

Academic Programs
- PhD, Computer Science & Engineering
- MS/MSE, Computer Science & Engineering
- BSE, Computer Engineering
- BSE, BS/BA, Computer Science
- BSE, Data Science
- Minor, Computer Science
- 100+ course offerings per year

Paper Awards 2015
- ACM SIGOPS Hall of Fame Award for 10-year most influential paper in Operating Systems
- VLDB Best Paper Award for constructing a natural language interface for relational databases
- ASEE ACE Best Paper Award for studying student performance improvement through interactive textbooks
- MOBISYS Best Paper Award for accelerating mobile applications
- MOBISYS Best Paper Award for reducing latency in interactive cloud gaming
- AAMAS Best Paper Award for analyzing the effectiveness of using shorter planning horizons
- AAMAS Best Student Paper Award for investigating the effects of market making on market performance

7 Academic Degrees
74 CSE Faculty
1365 CSE Undergrads
337 CSE Graduate Students
$25M+ Research Funding