

Keynote Speakers at the Data Intensive Study Center (DISC) Symposium



AnnaLee Saxenian is Dean and Professor in the School of Information and professor in the Department of City and Regional Planning at the University of California, Berkeley. Her most recent book, *The New Argonauts: Regional Advantage in the Global Economy* (Harvard UP, 2006), explores how the "brain circulation" by immigrant engineers from Silicon Valley has transferred technology entrepreneurship to emerging regions in China, India, Taiwan, and Israel.

Her prior publications include *Regional Advantage: Culture and Competition in Silicon Valley and Route 128* (Harvard UP, 1994), *Silicon Valley's New Immigrant Entrepreneurs* (PPIC, 1999), and *Local and Global Networks of Immigrant Professionals in Silicon Valley* (PPIC, 2002). Saxenian holds a Doctorate in Political Science from MIT,

a Master's in Regional Planning from the University of California, Berkeley, and a BA in Economics from Williams College.



David Lazer is a Distinguished Professor of Political Science and Computer and Information Science, Northeastern University, and co-director for the NULab for Texts, Maps, and Networks. Prior to joining Northeastern, he was on the faculty at the Harvard Kennedy School (1998-2009).

His research focuses on the nexus of network science, computational social science, and collaborative intelligence. He is the founder of the citizen science website, *Volunteer Science* and the political visualization website, *VisPolitics*. His research has been published in such journals as *Science*, *Proceedings of the National Academy of Science*, the *American Political Science Review*, and the *Administrative Science Quarterly*, and has received extensive coverage in the media, including the *New York Times*, NPR, *Washington Post*, *Wall Street Journal*, and *CBS Evening News*.

Professor Lazer holds multiple leadership and editorial positions, including board member for the International Network of Social Network Analysts (INSNA), reviewing editor for *Science*, associate editor of *Social Networks and Network Science*, numerous other editorial boards and program committees. He is a founder of the Political Networks section for the American Political Science Association.



Jeannette M. Wing is Avaneessians Director of the Data Sciences Institute at Columbia University, where she is also a professor of Computer Science. Until June 30, 2017, she was Corporate Vice President of Microsoft Research with oversight of its core research laboratories around the world and Microsoft Research Connections. Microsoft Research Labs advances the state of art in computing science, and rapidly transfers technologies into Microsoft products.

Dr. Wing has held key positions in academia and government, such as Carnegie Mellon University and the National Science Foundation (NSF). From 2007 to 2010, Wing served as Assistant Director of the Computer and Information Science and Engineering Directorate at NSF. In this capacity, she worked with NSF staff to set funding priorities for the academic science and engineering research community, create new programs, and represent the nation's computer science community. Wing has twice served as head of the Department of Computer Science at Carnegie Mellon.

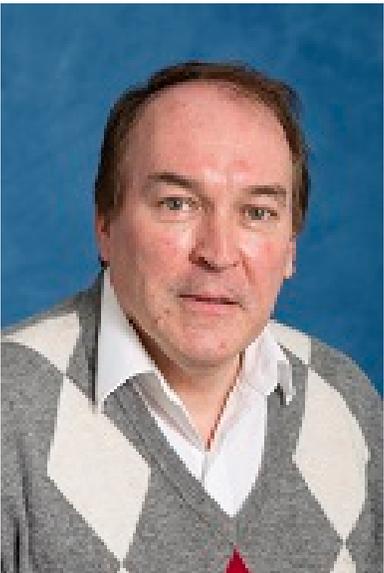
Her areas of expertise are in trustworthy computing, formal methods, concurrent and distributed systems, programming languages, and software engineering. Her research contributions include work on the Larch family of specification languages; programming language support for atomic objects in distributed transactions; with Dr. Maurice Herlihy, the notion of linearizability, a correctness condition for concurrent objects; and with Dr. Barbara Liskov, a semantics for behavioral subtyping. Her contributions in security and privacy include work on attack graphs and attack surfaces, work on formalizing privacy policies for automated compliance checking, and work on trust in networks of humans and computers.



Henry Kautz is the Robin & Tim Wentworth Director of the Goergen Institute for Data Science and Professor in the Department of Computer Science at the University of Rochester. He has served as Department Head at AT&T Bell Labs in Murray Hill, NJ, and as Professor at the University of Washington, Seattle.

In 2010, Kautz was elected President of the Association for Advancement of Artificial Intelligence (AAAI), and in 2016 was elected Chair of the AAAS Section on Information, Computing, and Communication. His research in artificial intelligence, pervasive computing, and healthcare applications has led him to be honored as a Fellow of the American Association for the Advancement of Science (AAAS), Fellow of the Association for Computing Machinery (ACM), and Fellow of the AAAI. He has received

the IJCAI Computers & Thought Award, the Ubicomp 10-Year Impact award, the AAAI Classic Paper award, and the AAAI Deployed Application award.



Peter V. Coveney holds a chair in Physical Chemistry, is an Honorary Professor in Computer Science at University College London (UCL), and is Professor Adjunct at Yale University School of Medicine (USA). He is the Director of the Centre for Computational Science (CCS) and the Computational Life and Medical Sciences Network (CLMS) at UCL. He also chairs the UK Collaborative Computational Projects Steering Panel. Coveney is active in a broad area of interdisciplinary research including condensed matter physics and chemistry, materials science, as well as life and medical sciences in all of which high performance computing plays a major role. He has led many large scale projects, including the EPSRC RealityGrid e-Science Pilot Project from 2001 to 2005 and its extension as a Platform Grant from 2005 to 2009. Coveney has been the recipient of National Science Foundation (NSF), Department of Energy (DoE), and European supercomputing awards.

He has published more than 350 scientific papers and co-authored two best-selling books, *The Arrow of Time* (Fawcett, 1991) and *Frontiers of Complexity* (Ballantine Books, 1996) and is lead author of the first textbook on *Computational Biomedicine* (Oxford University Press, 2014). Coveney is a founding member of the United Kingdom (UK) Government's E-Initiative Leadership Council and a Medical Academy Nominated Expert to the UK Prime Minister's Council for Science and Technology on Data, Algorithms and Modelling, which has led to the creation of the London-based Turing Institute. He is also a member of the London Centre for the Theory and Simulation of Materials, The Thomas Young Centre.