Theoretical Foundations for Social Computing
Participant Bios

Lorenzo Alvisi is a Professor in the Department of Computer Sciences at the University of Texas at Austin. Lorenzo holds a Ph.D. (1996) and M.S. (1994) in Computer Science from Cornell University, and a Laurea summa cum laude in Physics from the University of Bologna, Italy. His research interests are in dependable distributed computing. He is a Fellow of the ACM and the recipient of a Humboldt Research Award, an Alfred P. Sloan Fellowship, and an NSF CAREER Award, as well as of several teaching awards. He serves on the editorial boards of the ACM Transactions on Computer Systems (TOCS), ACM Computing Surveys, and Springer's Distributed Computing. In addition to distributed systems, Lorenzo is passionate about classical music and red Italian motorcycles.

Andrew Bernat was a founding member and chair of the Computer Science Department at the University of Texas at El Paso (spending 20 years there), NSF Program Director and now the Executive Director of the CRA. He has some 70-refereed publications, roughly equally in disciplinary research and in computing education, a large number of presentations and in excess of $25 million in externally funded activities. In recognition of "... his success in creating arguably the strongest computer science department at a minority-serving institution ...", the Computing Research Association honored him with the 1997 A. Nico Habermann Award. Outside interests include steam locomotives, narrow gauge railroads, SCUBA and his wonderful grandchildren.

Shuchi Chawla received her Ph.D. from Carnegie Mellon University and her B.Tech. from the Indian Institute of Technology, Delhi. She has held postdoctoral or visiting positions at Stanford University, Microsoft Research Silicon Valley, Microsoft Research Redmond, and the University of Washington. She is the recipient of an NSF Career award and a Sloan Foundation fellowship. She currently serves on the editorial boards of the SIAM Journal on Discrete Mathematics and ACM Transactions on Algorithms.

Yiling Chen is the John L. Loeb Associate Professor of Natural Sciences and Associate Professor of Computer Science at Harvard University. She received her Ph.D. in Information Sciences and Technology from the Pennsylvania State University. Prior to working at Harvard, she spent two years at Yahoo! Research in New York City. Her current research focuses on topics in the intersection of computer science and economics. Her awards include an ACM EC Outstanding Paper Award,

an AAMAS Best Paper Award, and an NSF Career award, and she was selected by IEEE Intelligent Systems as one of "AI's 10 to Watch" in 2011.

Vince Conitzer is the Sally Dalton Robinson Professor of Computer Science and Professor of Economics at Duke University. He received Ph.D. (2006) and M.S. (2003) degrees in Computer Science from Carnegie Mellon University, and an A.B. (2001) degree in Applied Mathematics from Harvard University. His research focuses on computational aspects of microeconomics, in particular game theory, mechanism design, voting/social choice, and auctions. This work uses techniques from, and includes applications to, artificial intelligence and multiagent systems. Conitzer has received the Social Choice and Welfare Prize (2014), a Presidential Early Career Award for Scientists and Engineers (PECASE), the IJCAI Computers and Thought Award, an NSF CAREER award, the inaugural Victor Lesser dissertation award, an honorable mention for the ACM dissertation award, and several awards for papers and service at the AAAI and AAMAS conferences. He has also been named a Guggenheim Fellow, a Kavli Fellow, a Bass Fellow, a Sloan Fellow, and one of AI's Ten to Watch. Conitzer and Preston McAfee are the founding Editors-in-Chief of the ACM Transactions on Economics and Computation (TEAC).

Kevin Crowston is a Distinguished Professor of Information Science at the Syracuse University School of Information Studies . He received his A.B. (1984) in Applied Mathematics (Computer Science) from Harvard University and a Ph.D. (1991) in Information Technologies from the Sloan School of Management, Massachusetts Institute of Technology.
His research examines new ways of organizing made possible by the use of information technology.

Ann Drobnis is the Director of the Computing Community Consortium. Most recently, she was as Albert Einstein Distinguished Educator Fellow at the National Science Foundation working on education and workforce development issues for the CISE Directorate. Ann spent most of her time working on the CS10K Project, whose goal is to get academically rigorous computer science courses into 10,000 high schools by 2016. This is a much-needed effort to create the research and workforce pipeline that our field so desperately needs. Prior to her time at NSF, she taught high school computer science and math at Thomas Jefferson High School for Science and Technology. She has a passion for broadening participation in computing, as her doctoral research was focused on ways to bring more females into the field.

Faisal D'Souza provides subject matter expertise, technical leadership and management, and guidance to the NITRD Program in the area of Social, Economic and Workforce Implications of IT. He supports the groups' monthly meetings and workshops, to include identifying opportunities for coordination and collaboration within the NITRD Program. He is also responsible for Security and IT Analyst for the National Coordination Office (NCO) for Networking and Information Technology Research and Development (NITRD). Faisal D'Souza is currently pursuing his B.S in Management Information System from the University of Maryland Business College. He is a Microsoft Certified System Engineer and holds compliance certification in ITIL v2 and v3.

Susan R. Fussell is a Professor in the Department of Communication and the Department of Information Science at Cornell University. She served from September 2010 to August 2012 as a Program Officer in the Human-Centered Computing cluster in the Division of information and Intelligent Systems (CISE/IIS)at the National Science Foundation. Dr. Fussell received her BS degree in psychology and sociology from Tufts University in 1981, and her Ph.D. in social and cognitive psychology from Columbia University in 1990 under the guidance of Robert Krauss. She was an NIMH post-doctoral fellow at Princeton University from 1990 to 1992, where she worked with Sam Glucksberg on social dimensions of figurative language use. Prior to joining Cornell University in August 2008, Dr. Fussell was an Associate Research Professor in the Human-Computer Interaction Institute at Carnegie Mellon University. Dr. Fussell's primary interests lie in the areas of computer-supported cooperative work and computer-mediated communication.

Arpita Ghosh is an Associate Professor of Information Science in the School of Computing and Information Science at Cornell University. She received her B.Tech from IIT Bombay in 2001, and my PhD from Stanford in 2006. Prior to joining Cornell, she spent 6 years (2006-2012) in the Microeconomics and Social Sciences group at Yahoo! Research. Her research centers around economic behavior on the Internet. She is currently most interested in the economics of online user contribution---whether explicit contribution, as in online crowdsourcing and user-generated content systems, or implicit, as in the collection of data from privacy-aware users---with a particular focus towards using formal game-theoretic analyses to inform the design of these systems.

Eric Gilbert is an Assistant Professor in the School of Interactive Computing at Georgia Tech. He joined the Georgia Tech faculty in 2011 after finishing a Ph.D. in CS at Illinois. His work is supported by grants from Yahoo!, Google, the NSF and DARPA. He also founded several social media sites, and his work has received four best paper awards and two nominations from ACM's SIGCHI.
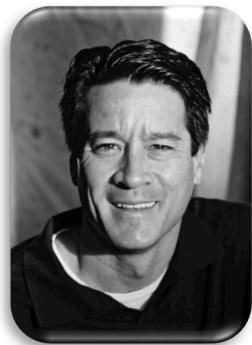
Ashish Goel is a Professor of Management Science and Engineering and (by courtesy) Computer Science at Stanford University, and a member of Stanford's Institute for Computational and Mathematical Engineering. He received his PhD in Computer Science from Stanford in 1999, and was an Assistant Professor of Computer Science at the University of Southern California from 1999 to 2002. His research interests lie in the design, analysis, and applications of algorithms; current application areas of interest include social networks, participatory democracy, Internet commerce, and large scale data processing. Professor Goel is a recipient of an Alfred P. Sloan faculty fellowship (2004-06), a Terman faculty fellowship from Stanford, an NSF Career Award (2002-07), and a Rajeev Motwani mentorship award (2010). He was a co-author on the paper that won the best paper award at WWW 2009, and an Edelman Laureate in 2014.

Bala Kalyanasundaram is Professor in the Department of Computer Science at Georgetown University. He received his B.Sc. in Applied Sciences in India in 1979, his B.E. in Electronics and Communication at the Indian Institute of Science in 1982, his M.S. in Computer Science at Indian Institute of Technology in 1987, and his Ph. D. in Computer Science at Pennsylvania State University in 1988. His research interests include: Computational Complexity; On-line, Probabilistic and Parallel Algorithms; Computational Biology and Geometry; and Next Generation Network.

Michael Kearns is computer scientist, Professor and National Center Chair at the University of Pennsylvania, the Founding Director of Penn's Singh Program in Networked & Social Systems Engineering (NETS), the Founding Director of Warren Center for Network and Data Sciences, and also holds Secondary Appointments in Wharton School. He is a leading researcher in computational learning theory and algorithmic game theory, and interested in machine learning, artificial intelligence, computational finance, algorithmic trading, computational social science and social networks. Kearns received his B.S. degree at the University of California at Berkeley in math and computer science in 1985, and Ph.D. in computer science from Harvard University in 1989.

Tracy Kimbrel is a Program Director in the Division of Computing and Communication Foundations (CCF) within the Directorate for Computer and Information Science and Engineering (CISE). Tracy is a member of CCF's Algorithmic Foundations cluster. Prior to joining NSF in 2009, Tracy was a Research Staff Member at the IBM TJ Watson Research Center in Yorktown Heights, New York. Tracy's research efforts concerned the design, analysis, and implementation of algorithms, ranging from highly theoretical to the most practical of efforts. His research areas include online algorithms, scheduling and resource management with applications ranging from computer file systems to ground transportation, and approximation algorithms. Tracy also developed the Introduction to

Algorithms class for the IBM TJ Watson Research Center's Family Science Program, which exposes elementary school children and their parents to scientific concepts and the industrial research environment. Tracy holds Ph.D., M.S., and B.S. degrees in Computer Science, all from the University of Washington.

Joe Konstan is Distinguished McKnight University Professor, Distinguished University Teaching Professor, and Associate Department Head of the Department of Computer Science and Engineering in the University of Minnesota's College of Science and Engineering. His research addresses a variety of human-computer interaction issues, including personalization (particularly through recommender systems), eliciting on-line participation, and designing computer systems to improve public health. He is probably best known for his work in collaborative filtering recommenders (the Group Lens project), and for his work in online HIV prevention. Konstan received his Ph.D. from the University of California, Berkeley in 1993.

Ee-Peng Lim is a professor at the School of Information Systems of Singapore Management University (SMU). He received Ph.D. from the University of Minnesota, Minneapolis in 1994 and B.Sc. in Computer Science from National University of Singapore. His research interests include social network and web mining, information integration, and digital libraries.

Keith Marzullo is the Director of the National Coordination Office for Networking and Information Technology Research and Development (NCO NITRD). NITRD provides a framework in which many Federal agencies come together to coordinate their networking and information technology research and development efforts. The Program operates under the aegis of the NITRD Subcommittee of the National Science and Technology Council's (NSTC) Committee on Technology. Social Computing is one of the R&D activities coordinated by NITRD. Prior to this, Keith was the Division Director of Computer and Network Systems, in the NSF Directorate of Computer and Information Science and Engineering. He was a professor at UC San Diego for over 20 years, including being the department chair for 5 years, and where he specialized in algorithms for fault tolerance and resilience. He has also been on the faculty of Cornell University Computer Science and the University of Tromsoe Computer Science. He obtained his PhD in 1984 from Stanford University. He is a Fellow of the ACM.

Winter Mason is currently on leave from Stevens Institute of Technology and working as a Data Scientist at Facebook. He went to the University of Pittsburgh and earned his B.S. in psychology in 1999. He spent two years working as a research assistant at

the Biostatistics Center on a multi-center clinical trial of therapy for BPH. He then moved on to Indiana University and graduated in 2007 with a Ph.D. in Social Psychology and Cognitive Science. He worked as a Visiting Scientist at Yahoo! Research in the Human Social Dynamics group from 2007-2011. In the fall of 2011 he started as an assistant professor at Stevens, and worked full time until July 2013 when he started at Facebook.

David McDonald joined the faculty at The Information School at University of Washington in January 2002. His current research is focused on technology and media use in the home and collaborative issues in large-scale peer production systems. He has published research on collaborative authoring, recommendation systems, organizational memory, and public use of large screen displays. His research interests span Computer-Supported Cooperative Work (CSCW) and Human-Computer Interaction (HCI). David earned his Ph.D. in Information and Computer Science at the University of California, Irvine. At UC Irvine he was part of the Computing, Organizations, Policy and Society (CORPS) group. David has worked at FX Palo Alto Laboratory in the Personal and Mobile technology group and at AT&T Labs.

Nina Mishra's research interests are in data mining and machine learning algorithms. In social networks, she discovered a large-scale phenomenon on Twitter: the use of hash tags to organize topic-focused repeated group discussions involving similar members. She has industrial research experience at Microsoft Research and HP Labs, as well as academic experience as an Associate Professor at the University of Virginia and Visiting Faculty at Stanford. She is currently a Principal Scientist at Amazon.

Elizabeth Mynatt is the Executive Director of the Institute for People and Technology (IPaT), a College of Computing Professor, and the Director of the Everyday Computing Lab. Themes in her research include supporting informal collaboration and awareness in office environments, enabling creative work and visual communication, and augmenting social processes for managing personal information. Mynatt earned her Bachelor of Science summa cum laude in computer science from North Carolina State University and her Master of Science and Ph.D. in computer science from Georgia Tech.

Tristan Nguyen currently manages the Air Force Office of Scientific Research's portfolio on Cyber Security and Information Assurance (CISA) and is a member of NITRD's CISA Interagency Working Group. In addition to this core Basic Research program, he is managing five OSD-sponsored MURI projects related to quantum information, cyber security, constructive mathematics, and control

theory. He received his Ph.D. in mathematics from Washington University in St. Louis.

Lynne Parker is the Division Director for the Information and Intelligent Systems (IIS) Division in the Computer and Information Science and Engineering (CISE) Directorate at the National Science Foundation. She is at NSF on leave from the Electrical Engineering and Computer Science Department at the University of Tennessee, Knoxville. She has been on the UTK faculty since 2002, and served as Associate Head of the EECS Department from 2010-2014. She received her Ph.D. in Computer Science from the Massachusetts Institute of Technology in 1994. Prior to joining the UTK faculty, she worked for several years as a Distinguished Research and Development Staff Member at Oak Ridge National Laboratory. She is serving as the General Chair for the IEEE International Conference on Robotics and Automation (ICRA) 2015, and has served as the Editor-in-Chief of the IEEE Robotics and Automation Society Conference Editorial Board, as an Administrative Committee (AdCom) Member of the IEEE Robotics and Automation Society, and as Editor of IEEE Transactions on Robotics. She is committed to mentoring female computer scientists and engineers, and was the founding advisor of the "Systers: Women in EECS" student group at UTK. Her research expertise is in the areas of distributed robotics, human-robot interaction, sensor networks, and machine learning. For her research contributions, she was awarded the PECASE (U.S. Presidential Early Career Award for Scientists and Engineers), and is a Fellow of IEEE.

David Parkes is Harvard College Professor, George F. Colony Professor of Computer Science, and Area Dean for Computer Science at Harvard University, where he leads research at the interface between economics and computer science, with a focus on electronic commerce, artificial intelligence and machine learning, having founded the EconCS research group. Parkes received his Ph.D. in Computer and Information Science from the University of Pennsylvania in 2001, and an M. Eng. in Engineering and Computing Science from Oxford University in 1995. Parkes served as Program Chair of ACM EC'07, AAMAS'08, HCOMP'14 and as General Chair of ACM EC'10 and WINE 2013. Parkes was the Chair of ACM SIGecom from 2011-2015, and serves as an editor of Games and Economic Behavior and on the editorial boards of the Journal of Autonomous Agents and Multi-agent Systems, the ACM Transactions on Economics and Computation, and the INFORMS Journal of Computing. Parkes is an editor of the special track of J. of Artificial Intelligence Research on Human Computation and AI. Parkes was elected an AAAI Fellow in 2014, and serves on a number of advisory boards in academia and industry.

Sharoda Paul is a Collaboration Researcher at GE Global Research in San Ramon, CA. Some research areas she is working on at GE are mobile collaboration, expert recommendation, wearables in healthcare, and human-machine collaboration. In the past, she was an NSF Computing Innovation Fellow at the Palo Alto Research Center (PARC) where she studied social computing and social search. She

received her Ph.D. from the College of Information Sciences and Technology at Penn State University. She is passionate about human-computer interaction (HCI)/user experience, computer-supported cooperative work (CSCW), social computing, social search, and social mobile applications.

Tim Roughgarden is an Associate Professor of Computer Science and (by courtesy) Management Science and Engineering at Stanford University, where he holds the Chambers Faculty Scholar development chair. His research interests include the many connections between computer science and economics, as well as the design, analysis, and applications of algorithms. For his research, he has been awarded the ACM Grace Murray Hopper Award, the Presidential Early Career Award for Scientists and Engineers (PECASE), the Shapley Lecturership of the Game Theory Society, a Sloan Fellowship, INFORM's Optimization Prize for Young Researchers, the Mathematical Programming Society's Tucker Prize, and the Gödel Prize.

Sid Suri is one of the found members of Microsoft Research, New York City. Before that he was a member of the Human & Social Dynamics group at Yahoo! Research led by Duncan Watts from 2008 to 2012. Prior to that he was a postdoctoral associate working with Jon Kleinberg in the computer science department at Cornell University. He earned his Ph.D. in computer and information science from the University of Pennsylvania in 2007 under the supervision of Michael Kearns.

Jenn Wortman Vaughan is a Researcher at Microsoft Research, New York City, a relatively new collaborative and interdisciplinary basic research lab. The goal of her research is to develop mathematically rigorous, empirically grounded frameworks to understand and design algorithms for eliciting and aggregating information, preferences, and beliefs. Her research draws on ideas from economics, machine learning, probability theory, optimization, and beyond. For several years, her research has centered on elicitation and aggregation using prediction markets, wagering mechanisms, and other crowdsourcing approaches. Jenn came to MSR in 2012 from UCLA, where she was an assistant professor in the computer science department and remains an adjunct. She completed her Ph.D. at the University of Pennsylvania in 2009, and subsequently spent a year as a Computing Innovation Fellow at Harvard. She is the recipient of Penn's 2009 Rubinoff dissertation award for innovative applications of computer technology, a National Science Foundation CAREER award, and a Presidential Early Career Award for Scientists and Engineers (PECASE).