

Cornell ISS Networks Workshop:
Search and Diffusion on Social Networks
November 8-11, 2006

Speaker Biographies

Lada A. Adamic is an Assistant Professor in the School of Information and the Center for the Study of Complex Systems at the University of Michigan. Her research interests center on information dynamics in networks: how information diffuses, how it can be found, and how it influences the evolution of a network's structure. She worked previously in Hewlett-Packard's Information Dynamics Lab on research projects relating to networks constructed from large data sets. These projects included mining the medical literature for gene-disease connections, tracking and modeling information flow in E-mail and blog networks, modeling search processes on real-world social networks, and building expertise-finding systems.

Steve Borgatti is Professor and Chair of the Organization Studies Department in the Carroll School of Business at Boston College. He has published more than 80 papers on social networks and ethnographic research methods. His research interests include knowledge management, culture and cognition and mathematical/computational approaches to organizational theory. He is author of UCINET, a social network analysis software package, and ANTHROPAC, a software package for cultural domain analysis. He is a two-term past president of INSNA, the professional association for social network researchers, and is currently serving as a Senior Editor for *Organization Science*, as well editorial board member for several social science journals. He is currently engaged in a three-year research project funded by the Office of Naval Research to develop methodology for identifying key players in a network.

Ronald Burt is the Hobart W. Williams Professor of Sociology and Strategy at the University of Chicago Graduate School of Business. His work is about the social structure of competitive advantage (<http://ChicagoGSB.edu/fac/ronald.burt>). His most recent book is *Brokerage and Closure* (2005, Oxford University Press).

Noshir Contractor is a Professor in the Departments of Speech Communication and Psychology at the University of Illinois Urbana-Champaign. He is a Research Affiliate of the Beckman Institute for Advanced Science and Technology, Director of the Science of Networks in Communities (SONIC) Group at the National Center for Supercomputing Applications, and Co-Director of the Age of Networks Initiative at the Center for Advanced Study at the University of Illinois at Urbana-Champaign. His research program, funded continuously for the past decade by major grants from the U.S. National Science Foundation, is investigating factors that lead to formation, maintenance, and dissolution of dynamically linked knowledge networks in 21st century organizational forms. Prof. Contractor has published or presented more than 250 research papers dealing with communication.

Pedro Domingos is Associate Professor of Computer Science and Engineering at the University of Washington. His research interests are in artificial intelligence, machine learning and data mining. He received a Ph.D. in Information and Computer Science from the University of California at Irvine, and is the author or co-author of over 100

technical publications. He is a member of the advisory board of JAIR, a member of the editorial board of the Machine Learning journal, and a co-founder of the International Machine Learning Society. He was program co-chair of KDD-2003, and has served on numerous program committees. He has received several awards, including a Sloan Fellowship, an NSF CAREER Award, a Fulbright Scholarship, an IBM Faculty Award, and best paper awards at KDD-98, KDD-99 and PKDD-2005.

Shane Greenstein is the Elinor and Wendell Hobbs Professor in the Management and Strategy Department of the Kellogg School of Management at Northwestern University. His research interests cover a wide variety of topics in the economics of high technology, including user benefits from advances in computing and communication technology, structural change in information technology markets, standardization in electronics markets, investment in digital infrastructure at private and public establishments, and, most recently, the spread of the commercial Internet across the United States. He has written over sixty refereed or academic articles and five books. He has written over seventy articles for policy and business audiences.

Matthew Jackson is Professor of Economics at Stanford University, where he received his PhD. His current research interests are in the economics of social networks, the design and properties of political institutions, arms races and war, implementation and mechanism design. Recent publications include "On the Weight of Nations: Assigning Voting Power to Heterogeneous Voters," (with Salvador Barbera) *Journal of Political Economy*; "Existence of Equilibria in Single and Double Auctions," (with Jeroen Swinkels) *Econometrica*; "The Effects of Social Networks on Employment and Inequality," (with Antoni Calvo-Armengol) *American Economic Review*; "A Strategic Model of Social and Economic Networks," (with Asher Wolinsky) *Journal of Economic Theory*; and "Bayesian Implementation" in *Econometrica*.

David Jensen is Associate Professor of Computer Science and Director of the Knowledge Discovery Laboratory at the University of Massachusetts Amherst. From 1991 to 1995, he served as an analyst with the Office of Technology Assessment, an agency of the United States Congress. He received his doctorate from Washington University in St. Louis in 1992. His current research focuses on machine learning and knowledge discovery in complex data sets, with applications to social network analysis and fraud detection. He serves on the Executive Committee of the ACM Special Interest Group on Knowledge Discovery and Data Mining and on the program committees of the International Conference on Machine Learning and the International Conference on Knowledge Discovery and Data Mining.

Michael Kearns is Professor in the Computer and Information Science Department at the University of Pennsylvania, where he holds the National Center Chair in Resource Management and Technology. He also holds an appointment in the Operations and Information Management (OPIM) department of the Wharton School, in addition to serving as the head of quantitative strategy development in the Equity Strategies department of Lehman Brothers in New York City. From 1991-2001, Kearns worked in basic artificial intelligence and machine learning research at AT&T Labs and Bell Labs, where he became head of the AI department. He joined the Penn faculty in January 2002. Prof. Kearns' primary research interests are in artificial intelligence and machine learning, including computational learning theory, reinforcement learning, probabilistic

inference and graphical models; his recent emphasis has been on computational and modeling issues in game theory, economics, and finance.

Jon Kleinberg is a Professor in the Department of Computer Science at Cornell University. His research is focused on issues at the interface of networks and information, with an emphasis on the social and information networks that underpin the Web and other on-line media. He is the recipient of an NSF Career Award, an ONR Young Investigator Award, research fellowships from the MacArthur, Packard, and Sloan Foundations, teaching awards from the Cornell Engineering College and Computer Science Department, the Rolf Nevanlinna Prize from the International Mathematical Union, and the National Academy of Sciences Award for Initiatives in Research.

Bruce Kogut is the Eli Lilly Professor at INSEAD, France. He received his Ph.D. from MIT and was a professor at the Wharton School of Business prior to moving to INSEAD. His research interests are in privatization, corporate governance, agent-based models of the venture capital industry; small worlds, and cross-country comparisons, with a focus on the application of statistical models to the evolution of networks.

Rachel Kranton is a Professor in the Department of Economics at the University of Maryland. She received her Ph.D. in Economics from the University of California, Berkeley in 1993 and joined the faculty in the same year. Her research considers economic institutions and how personal relationships and the social setting affect economic outcomes. She teaches microeconomic theory and industrial organization and also has interests in behavioral economics and development economics. In 1996-1997, she was a fellow at the Russell Sage Foundation, and in 2001-2002 she was a member of the Institute for Advanced Study. Publications and working papers include: "A Theory of Buyer-Seller Networks" (with Deborah Minehart), *American Economic Review*, 2001, "Economics and Identity" (with George Akerlof) *Quarterly Journal of Economics*, 2000; "The Hazards of Piecemeal Reform: British Civil Courts and the Credit Market in Colonial India" (with Anand Swamy), *Journal of Development Economics*, 1999; and "Reciprocal Exchange: A Self-Sustaining System," *American Economic Review*, 1996.

Charles Manski is Board of Trustees Professor in Economics at Northwestern University, a position he has held since 1997. He formerly was a faculty member at the University of Wisconsin-Madison (1983-98), the Hebrew University of Jerusalem (1979-83), and Carnegie Mellon University (1973-80). He received his B.S. and Ph.D. in economics from M. I. T. in 1970 and 1973. Manski's research spans econometrics, judgement and decision, and the analysis of social policy. Recent publications include *Social Choice with Partial Knowledge of Treatment Response* (Princeton 2005), and *Partial Identification of Probability Distributions* (Springer-Verlag, 2003), Manski is an elected fellow of the Econometric Society, The American Academy of Arts and Sciences, and the American Association for the Advancement of Science.

James Moody is Associate Professor of Sociology at Duke University. His most general interests are in the formal properties of informal social systems, and he has written broadly on the dynamics of adolescent social networks, disease networks, network theory, and methods. He is currently working on questions related to the evolution of science networks to better understand the generation of influential ideas and questions about the structural limits of diffusion in dynamic networks.

David Siddhartha Patel is a Ph.D. candidate in the Department of Political Science at Stanford University specializing in comparative politics of the Middle East. He is currently a pre-doctoral fellow at Stanford's Center on Democracy, Development, and the Rule of Law. Beginning in July 2007, he will be an Assistant Professor in the Department of Government at Cornell University. His research investigates the role of Islamic institutions in facilitating collective action, especially under authoritarian conditions. In 2003-2004, Patel conducted independent research in Iraq on the role of mosques and clerical networks in creating social order. He has also conducted research in Jordan, Syria, Yemen, and China on state oversight of Islamic institutions, mosque activities, and Islamist movements. Patel received his B.A. from Duke University in Political Science and Economics.

Duncan Watts is Professor of Sociology at Columbia University, and Director of the Collective Dynamics Group (<http://cdg.columbia.edu>). His research is concerned with the structure and evolution of social networks, as well as the dynamics of collective social processes. He holds a B.Sc. in Physics from the University of New South Wales, and a Ph.D. in Theoretical and Applied Mechanics from Cornell University.