

Appendix B
Networks Theme Project
Activities Compilation 2005-2008

Conferences

Nov. 8-11, 2006

Search and Diffusion on Social Networks
423 ILR Conference Center

March 28-31, 2007

Cornell Microsoft International Symposium on Self-Organizing Online Communities
423 ILR Conference Center

Courses

Fall 2006: *Social Networks and Social Processes (III)* (SOC 304)

David Strang, Team Member and Professor of Sociology

Spring 2006: *Economics of Social Networks* (ECON 718)

Larry Blume, Team Member and Professor of Economics

Spring 2007: *Networks* (ECON 204; INFO 204; SOC 209)

David Easley, Team Member and Professor of Economics

Jon Kleinberg, Team Member and Professor of Computer Science

Spring 2007: *Online Communities Independent Study* (SOC 491)

Michael Macy, Team Leader and Professor of Sociology

Spring 2007: *Seminar on Communication Networks* (COMM 610)

Connie Yuan, Team Affiliate and Professor of Communications

Fall 2007: *Group Solidarity* (SOC 311)

Michael Macy, Team Leader and Professor of Sociology

Fall 2007: *The Structure of Information Networks* (INFO 685/ CS 685)

Jon Kleinberg, Team Member and Professor of Computer Science

Spring 2008: *Networks* (ECON 204; INFO 204; SOC 209)

David Easley, Team Member and Professor of Economics

Jon Kleinberg, Team Member and Professor of Computer Science

Spring 2008: *Empirical Analysis of Industrial Organizations* (AEM 694)

Jeff Prince, Team Member and Professor of Applied Economics & Management

Spring 2008: *Networks and Organizations* (ILROB 473)

Mary Still, Team Member and ISS Postdoctoral Associate

Spring 2008: Computational Methods for Complex Networks (INFO 485/ SOC 485)
Gueorgi Kossinets, Team Affiliate and WebLab Postdoctoral Associate

Events

April 26, 2006

Theme Project Kick-off Lecture: "Getting Connected: Social Science in the Age of Networks"
Michael Macy, Team Leader and Professor of Sociology
4:30-6:00 p.m., 423 ILR Conference Center

September 5, 2006

Group Formation in Large Social Networks: Membership, Growth, and Evolution
Dan Huttenlocher and Jon Kleinberg, Team Members & Profs. of Comp. Science
1:00-2:30 p.m., 146 Myron Taylor Hall

September 8, 2006

NSF -ITR Workshop on Synthetic Data
8:00 a.m. -4:30 p.m., 109 Ives Hall
Sponsored by NSF and hosted by CISER

September 15, 2006

Empirical Analysis of an Evolving Social Network
Gueorgi Kossinets, Team Affiliate and Web Lab Postdoctoral Associate
10:30 a.m. -12:00 p.m., 146 Myron Taylor Hall

September 22, 2006

Networks Emerging in a Volatile World
Fernando Vega-Redondo, Visiting Prof. of Economics
10:30 a.m.-12:00 p.m., 146 Myron Taylor Hall

September 26, 2006

Diffusion of the Internet Among Corporate Elite
Mary Still, Team Member and ISS Postdoctoral Associate
1:00-2:30 p.m., 146 Myron Taylor Hall

October 3, 2006

Recognizing Social Capital in Social Networks: Experimental Results
Kathleen O'Connor, Team Member & Prof. of Management
1:00-2:30 p.m., 146 Myron Taylor Hall

October 13, 2006

Synthetic Data: We Made the Numbers Up, but It's OK to Use Them
John Abowd, Team Member and Edmund Ezra Day Professor of ILR
10:00-11:00 a.m., 301 College Ave., Large Conference Room
Sponsored by Information Science

Events, cont.

October 17, 2006

Bluetooth Phone Project

David Lazar, Asst. Prof. of Public Policy, Harvard University; Michael Macy, Team Leader and Prof. of Sociology; and Gueorgi Kossinets, Team Affiliate and Web Lab Postdoctoral Associate
1:00-2:30 p.m., 146 Myron Taylor Hall

October 20, 2006

Social Network Capital, Economic Mobility and Poverty Traps

Chris Barrett and Pin Chantarat, Applied Economics and Management
10:30 a.m.-12:00 p.m., 146 Myron Taylor Hall

October 27, 2006

Explaining Retention in Voluntary Associations: The Role of Local Network Structure in Online Community

Ted Welsler, Team Member and ISS Postdoctoral Associate
10:30 a.m.-12:00 p.m., 146 Myron Taylor Hall

October 31, 2006

Who Does an Elite Firm Emulate? Social Networks, Imitation, and Corporate Benchmarking

David Strang, ISS Networks Team Member and Prof. of Sociology
Mary Still, Team Member and ISS Postdoctoral Associate
1:00-2:30 p.m., 146 Myron Taylor Hall

November 7, 2006

Identifying Community Structures from Network Data via Maximum Likelihood Methods

Matthew Jackson, Professor of Economics, Stanford
1:00-2:30 p.m., 146 Myron Taylor Hall

November 14, 2006

Statistical Modeling on Networks: A Discussion

John Abowd, Team Member and Edmund Ezra Day Professor of Industrial and Labor Relations and Info. Science, and Ian Schmutte, Economics
1:00-2:30 p.m., 146 Myron Taylor Hall

December 1, 2006

Automatic Mapping and Modeling of Human Networks

Alex (Sandy) Pentland, Human Dynamics Laboratory Director & Toshiba Professor of Media Arts and Sciences, The Media Laboratory, MIT
10:30 a.m.-12:00 p.m., 146 Myron Taylor Hall

January 31, 2007

An Experimental Study of the Coloring Problem on Human Subject Networks

Sid Suri, Postdoctoral Associate, Computer Science
1:15 p.m., 146 Myron Taylor Hall

Events, cont.

February 7, 2007

Network Exchange Theory

Shane Thye, Associate Professor of Sociology, University of South Carolina

1:15 p.m., 146 Myron Taylor Hall

February 13, 2007

NET Resistance Equations

Arnout van de Rijt, Sociology

3:30 p.m., 146 Myron Taylor Hall

February 21, 2007

Respondent Driven Sampling

Douglas Heckathorn, Prof. of Sociology

1:00 p.m., 146 Myron Taylor Hall

March 7, 2007

Cognitive and Affective Aspects of Network Relationships

Geri Gay, Team Member and Kenneth J. Bissett Professor and Chair of Communication, & Connie Yuan, Team Affiliate and Prof. of Communication

1:30-3:00 p.m., 146 Myron Taylor Hall

March 13, 2007

Ongoing Wikipedia Projects: Evolution of Networks; Predicting Article Quality

Vladimir Barash, Dan Cosley, Gueorgi Kossinets, Tom Lento, Arnout van de Rijt, & Ted Welser

3:30-5:00 p.m., 146 Myron Taylor Hall

March 14, 2007

Ongoing Wikipedia Projects Part II: Diffusion of Innovations; Policy-Making

Vladimir Barash, Laura Black, Dan Cosley, Gueorgi Kossinets, & Ted Welser

1:30-3:00 p.m., 146 Myron Taylor Hall

April 3, 2007

Building On-Line Reputations and How Obligations are Formed: A Study of Amazon.com and ACIDplanet.com

Trevor Pinch, Professor of Science & Technology Studies

3:30-5:00 p.m., 146 Myron Taylor Hall

April 11, 2007

Complex Contagions and the Weakness of Long Ties

Michael Macy, Team Leader and Professor of Sociology

1:30-3:00 p.m., 146 Myron Taylor Hall

Events, cont.

April 18, 2007

Trading Networks with Price-Setting Agents

David Easley, Team Member, and Henry Scarborough Professor of Social Sciences

1:30-3:00 p.m., 146 Myron Taylor Hall

April 24, 2007

What Makes a Grade? The Respective Contribution of Pupils, Schools, and Peers in Achievement in English Primary Education

Amine Ouazad, CREST-INSEE and CEE

3:30-5:00 p.m., 146 Myron Taylor Hall

April 25, 2007

Networks in the Boardroom

Francis Kramarz, INSEE

1:30-3:00 p.m., 146 Myron Taylor Hall

May 1, 2007

British Telecom Network Data

Nathan Eagle, Research Specialist, MIT Design Laboratory

3:30-5:00 p.m., 146 Myron Taylor Hall

May 9, 2007

Virtual Worlds for The Study of Real Business (and Economics, Law, Politics, Sociology....)

Robert Bloomfield, Nicholas H. Noyes Professor of Management & Professor of Accounting, JGSM

1:30-3:00 p.m., 146 Myron Taylor Hall

September 19, 2007

Does Buying High Mean Buying Often? Relating Quality Choice and Replacement Cycles for a Vertically Differentiated, Rapidly Improving Durable Good

Jeff Prince, Team Member and Prof. of AEM

4:00 p.m., 498 Uris Hall

Sponsored by the AEM Seminar Series

September 20, 2007

The 3D Internet and Virtual Business

Sandra Kearney, Global Lead, 3D Internet and Virtual Business, IBM

3:00-4:15 p.m., B06 Sage Hall

Sponsored by Robert Bloomfield's Metanomics course

September 25, 2007

Blurring the Boundaries: Collaborative Learning

Jeff Hancock, Assistant Professor of Communication, and Geri Gay, ISS Networks Team Member and Kenneth J. Bissett Professor & Chair, Communication

12:15-1:30 p.m., 225 ILR Conference Center

Sponsored by the Faculty Innovation in Teaching Series

Events, cont.

October 24, 2007

Pictures of Traces of Places, People, and Groups: Recent Work from the Microsoft Research Community Technologies Group

Marc Smith, Senior Research Sociologist, Microsoft

Lecture: 4:00-5:00 p.m., 340 Duffield Hall, Reception: 3:45-4:00 p.m.

Co-Sponsored by Cornell Information Science, Sociology, Communication and the ISS Networks Team

April 23, 2008

Theme Project Capstone Lecture: "Getting Connected: Social Science in the Age of Networks"

4:30-6:00 p.m., 423 ILR Conference Center

Publications

Backstrom, L., Dwork, C., and Kleinberg, J. 2007. "Wherefore Art Thou R3579X? Anonymized Social Networks, Hidden Patterns, and Structural Steganography." Proc. 16th Intl. World Wide Web Conference.

Backstrom, L., Huttenlocher, D., Kleinberg, J., and Lan, X. 2006. "[Group Formation in Large Social Networks: Membership, Growth, and Evolution.](#)" Proc. 12th ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining.

Backstrom, L., Kleinberg, J., Kumar, R., and Novak, J. 2008. "Spatial variation in search engine queries." Proc. 17th Intl. World Wide Web Conference.

Blume, L., Easley, D., Kleinberg, J., and Tardos E. 2007. "Trading Networks with Price-Setting Agents." Proc. 8th ACM Conference on Electronic Commerce.

Boehner, K., Gay, G., and Hembrooke, H. 2005. "Designing for a Sense of Place: Imprints of Presence." For the Creating a Sense of Presence in Hybrid Spaces Panel at the 11th International Conference on Human Computer Interaction, July 22-27, Las Vegas, NV, USA.

Boehner, K., Sengers, P., and Gay, G. 2005. "Affective presence in museums: Ambient systems for creative expression." *Journal of Digital Creativity* 16 (2), 79-89.

Boehner, K., Sengers, P., Medinskiy, Y., and Gay, G. 2005. "Opening the frame of the art museum: technology between art and tool." *Digital Arts and Culture*.

Centola, D. and Macy, M. 2007. "Complex Contagions and the Weakness of Long Ties." *American Journal of Sociology* 113: 702-34.

Centola, D., Willer R., and Macy, M. 2005. "The Emperor's Dilemma: A Computational Model of Self-Enforcing Norms." *American Journal of Sociology* 110: 1009-1040.

Centola, D., Eguiluz, V., and Macy, M. 2007. "Cascade Dynamics of Complex Propagation." *Physica A*, 374: 449-456.

Publications, cont.

- Cho, H. C., Gay, G., Davidson, B. D., and Ingraffea, A., 2007. "Communication Styles, Social Networks, and Learning Performance in a CSCL." *Journal of Computers and Education* 49 (2), 309-329.
- Cho, H. C., Lee, J-S., Stefanone, M., Gay, G., Davidson, B. D., & Ingraffea, A. I., 2005. "Development of Computer-Supported Collaborative Social Networks in an Online Learning Community." *Behavior and Information Technology* 24 (6), 435-447.
- Hembrooke, H., Granka, L., Gay, G.K., and Liddy, E. 2005. "The Effects of Expertise and Feedback on Search Term Selection and Subsequent Learning." *Journal of the American Society for Information Science and Technology* 56 (8), 861-872.
- Immorlica, N., Kleinberg J., Mahdian, M., and Wexler, T. 2007. "The Role of Compatibility in the Diffusion of Technologies through Social Networks." Proc. 8th ACM Conference on Electronic Commerce.
- Kleinberg, J., and Tardos, E. "Balanced Outcomes in Social Exchange Networks." Proc. 40th ACM Symposium on Theory of Computing, forthcoming 2008.
- Lee, C. K., and Strang, D. 2006. "The international diffusion of public sector downsizing: network emulation and theory-driven learning." *International Organization* 60: 883-909.
- Leshed, G., Hancock, J., Cosley, D., McLeod, P., and Gay, G. 2007. "Feedback for Guiding Reflection on Teamwork Practices." GROUP Proceedings, Conference, Sanibel Island, FL.
- Liben-Nowell, D. and Kleinberg, J. 2008. "[Tracing Information Flow on a Global Scale Using Internet Chain-Letter Data.](#)" "Proc. National Academy of Sciences, 105 (12): 4633-4638, 25 March.
- Macy, M., and Flache, A. "Agent-Based Modeling." *Oxford Handbook of Analytical Sociology*, forthcoming 2009.
- Macy, M., and van de Rijt, A. 2006. "Ethnic Preferences and Residential Segregation: Theoretical Explorations Beyond Detroit." *Journal of Mathematical Sociology* 30 (3).
- Pai, S., Kuryloski, P., Yip, H., Yennamandra, S., Wicker, S., Boehner, K., & Gay, G. 2007. "Networks of Sensors in Public Spaces: Combining Technology With Art." In the IEEE International Symposium on Ubiquitous Computing and Intelligence (IEEE UCI'07). Niagara Falls, Ontario, Canada.
- Sengers, P., Boehner, K., Mateas, M., Gay, G. 2007. "Disenchantment of Affect." *Journal of Personal and Ubiquitous Computing.* Available at: <http://www.springerlink.com/content/2528k2m111g32002>.
- Shami, N.S., Yuan, Y.C., Cosley, D., Xia, L., Gay, G. 2007. "That's what Friends are for: Facilitating 'Who Knows What' Across Group Boundaries." GROUP Proceedings, Sanibel Island, FL.
- Stefanone, M., & Gay, G. 2007. "Structural Reproduction of Social Networks in Computer-Mediated Communication Forums." *Journal of Behavior and Information Technology* 13(1).

Publications, cont.

Still, M. and Strang, D. "Who Does an Elite Organization Emulate? Networks, Influence and Benchmarking." *Administrative Science Quarterly*, forthcoming 2008.

Strang, D. and Jung. "Participatory improvement at a global bank: the diffusion of quality teams and the demise of a six sigma initiative." *Organization Studies*, forthcoming 2008.

Strang, D., and Kim, Y. 2005. "Diffusion and domestication of managerial innovations: the spread of scientific management, quality circles, and TQM between the US and Japan." In S. Ackroyd, R. Batt, P. Thompson, P. S. Tolbert, eds., *The Oxford Handbook of Work and Organization*. Oxford: Oxford University Press, 177-99.

Strang, D. and Still, M. 2006. "Does ambiguity promote imitation, or hinder it? an empirical study of benchmarking teams." *European Management Review* 3: 101-12.

Thom-Santellie, J., Ainslie, A., and Gay, G. 2007. "Location, location, location: A study of bluejacking practices." *CHI Extended Abstracts*: 2693-2698.

Van de Rijt, A. and Macy, M. "Neighborhood Chance and Neighborhood Change: A Comment on Bruch and Mare." *American Journal of Sociology*, forthcoming 2008.

Van de Rijt, A. and Macy, M. 2006. "Power and Dependence in Intimate Exchange." *Social Forces* 84: 1455-70.

Walther, J., Gay, G., and Hancock, J. 2005. "How do communication and technology researchers study the Internet." *Journal of Communication* 55 (3), 632-657.

Welser, H.T., Smith, M., Gleave, E., and Fisher, D. 2008. "Distilling Digital Traces: Computational Social Science approaches to studying the internet." *Handbook of Online Research Methods*. Edited by Nigel Fielding, Ramond M. Lee and Grant Blank. Sage Publications.

Welser, H.T., Lento, T., Smith, M., Gleave, E., and Himelboim, I. 2008. "A picture is worth a thousand questions: Visualization techniques for computer mediated interaction." *e-Research: Transformations in Scholarly Practice*. Edited by Nicholas Jankowski. Routledge.

Welser, H.T., Gleave, E., Fisher, D., and Smith, M. 2007. "Visualizing the Signatures of Social Roles in Online Discussion Groups." *The Journal of Social Structure* 8 (2).

Xia, L., Shami, N.S., Yuan, Y., and Gay, G. 2007. "The Impact of Negative Relations on Performance and Satisfaction in Group Work." Proceedings of the Hawaii International Conference on Systems Sciences (HICSS-40 '07), Hawaii, USA, 246-258.

Yuan, Y. C., & Gay, G. 2006. "Homophily of network ties, and bonding and bridging social capital in distributed teams." *Journal of Computer-Mediated Communication* 11 (4), article 9.

<http://jcmc.indiana.edu/vol11/issue4/yuan.html>.

Publications, cont.

Yuan, Y., Gay, G., and Hembrooke, H. 2006. "Focused Activities and the Development of Social Capital in a Distributed Learning Community." *Information Society* 22 (1), 25-39.