# Damon M. Centola

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#### Education

Ph.D.	Sociology, Cornell University, 2006
MA	Sociology, Cornell University, 2004
BA	Philosophy/Logic, Marlboro College, 1997, summa cum laude

#### **Appointments**

2019-	Professor, University of Pennsylvania, Annenberg School for Communication & School
	of Engineering and Applied Sciences
2019-	Senior Fellow, Penn LDI Center for Health Incentives and Behavioral Economics
2019-	Faculty, Penn Population Studies Center
2015-	Faculty, Penn Master of Behavioral and Decision Sciences Program
2013-	Faculty, Penn Warren Center for Network and Data Sciences
2013-	Director, Network Dynamics Group
2013-19	Associate Professor, University of Pennsylvania, Annenberg School for Communication & School
	of Engineering and Applied Sciences
2008-13	Assistant Professor, M.I.T., Sloan School of Management
2006-08	Robert Wood Johnson Scholar in Health Policy, Harvard University
2001-02	Visiting Scholar, The Brookings Institution

### **Research**

Computational Social Science, Social Epidemiology, Social Networks, Internet Experiments, Collective Action and Social Movements, Innovation Diffusion, Sustainability Policy, Cultural Evolution, Agent Based Modeling

### Awards and Fellowships

- 2019 Harrison White Outstanding Book Award, American Sociological Association
- 2019 Top Paper Award, Health Communication Division, International Communication Association
- 2018 Best Paper Award, International Conference on Computational Social Science
- 2017 James Coleman Award for Outstanding Article, Rationality and Society Section of the American Sociological Association
- 2016 Wharton Mack Institute Fellow
- 2014-15 Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford University
- 2014-15 Fellow, Lenore Annenberg and Wallis Annenberg Endowment for Communication
- 2014 US Patent #8713143, "A Method of Creating Social Networks to Facilitate Behavior Change"
- 2012 Kavli Frontiers of Science, National Academy of Sciences

- 2011 Leo Goodman Early Career Award, Sociological Methodology Section of the American Sociologica Association
- 2011 Fellow, Institute for Research in the Social Sciences, Stanford University
- 2011 Award for Outstanding Article, Mathematical Sociology Section of the American Sociological Association
- 2010 Fellow, Center for the Study of Society and Organizations, Princeton University
- 2010 M.I.T. Prize for Research in Computers and Communications
- 2009 Award for Outstanding Article, Mathematical Sociology Section of the American Sociological Association
- 2006 Award for Outstanding Article, Mathematical Sociology Section of the American Sociological Association
- 2004 Columbia University Exchange Scholar Fellowship
- 2004 NSF EITM Summer Fellowship
- 2002 Cornell University Russell Sage Fellowship
- 2002 NSF IGERT Fellowship in Non-linear Dynamics and Chaos
- 2000 Santa Fe Institute Summer Fellowship

#### <u>Grants</u>

- 2019-20 PI, Facebook Grant for "Networked Crowdsourcing: An Online Experiment in Content Moderation" (with Doug Guilbeault) (\$96,000, direct)
- 2017-19 PI, NIH Grant for "Using Social Networks to Improve Scientific Communication about Tobacco Use" (\$50,000, direct)
- 2016-19 PI, Robert Wood Johnson Pioneer Grant for "Improving Medical Decision Making through the Wisdom of Crowds" (\$390,041)
- 2016-19 Co-PI, Swedish Foundation Grant for "Career Development Workshops to Promote Analytical Sociology" (with Peter Hedstrom, Elizabeth Bruch, and Emily Erikson) (\$109,350 direct)
- 2016-17 PI, Penn Center for Online Learning Course Development Award for "Network Dynamics and Social Behavior" (\$17,000 direct)
- 2014-17 Co-PI (with Urmimala Sarkar, UCSF), NIH R01 Grant for "Influencing Cervical Cancer Prevention and Detection through Social Media," (\$1,885,685)
- 2014-16 Co-PI (with Christine Dehlendorf, UCSF), Hewlett Foundation Grant for "Effects of Peer Influence on Long-Acting Reversible Contraceptive Use" (\$423,500 direct)
- 2013-14 PI, Annenberg National Health Communication Study Seed Grant for "How Online Networks Impact Health Outcomes" (\$35,000, direct)
- 2009-12 PI, James S. McDonnell Foundation Complex Systems Grant for "Experimental Investigations into the Effects of Network Structure on Social Contagions" (\$259,000 direct).
- 2004-05 Co-Investigator (with Michael Macy), NSF Human and Social Dynamics Grant for "Network Topology and the Dynamics of Collective Action" (\$90,946).

#### <u>Books</u>

Centola, Damon. *Change: The surprising science of how new ideas and behaviors take off and take hold*. New York: Little,Brown. (expected 2021)

• Translations into Chinese, Romanian, Korean, Russian

Centola, Damon. 2018. *How Behavior Spreads: The science of complex contagions*. Princeton, NJ: Princeton University Press.

- 2019 Harrison White Outstanding Book Award, American Sociological Association
- Translated into Chinese, Arabic

• Reviews & Coverage: <u>Science, Journal of Mathematical Sociology</u>, <u>Information, Communication & Society</u>, <u>New Scientist</u>, <u>MIT Sloan Management Review</u>, <u>Strategy + Business</u>, <u>The American Interest</u>

#### Peer-Reviewed Articles

- Guilbeault, Doug and Damon Centola. (forthcoming) *PlosOne*. "Networked Collective Intelligence Improves Dissemination of Scientific Information Regarding Smoking Risks."
- Dehlendorf, Christine, et al. (forthcoming) *Contraception*. "Birth Control Connect: a randomized trial of an online group to disseminate contraceptive information."
- Zhang, Jingwen and Damon Centola. 2019. *Annual Review of Sociology*. "Social Networks and Health: New Developments in Diffusion, Online and Offline." Vol. 45(1):91-109.
- Zhang, Jingwen et al. 2019. *Preventive Medicine*. "Facts or stories? How to use social media for cervical cancer prevention: A multi-method study of the effects of sender type and content type on increased message sharing." 126 (105751).
  - 2019 Top Paper Award, Health Communication Division, International Communication Association
- Le, Gem et al. 2019. *Plos One*. "Perceptions of cervical cancer prevention on Twitter uncovered by different sampling strategies." Feb 11;14(2):e0211931.
- Becker, Joshua, Ethan Porter and Damon Centola. 2019. Proceedings of the National Academy of Sciences. "The Wisdom of Partisan Crowds." 116 (22) 10717-10722. Harvard Business Review
- Lyson, Helena et al. 2019. *Journal of Cancer Education.* "Social media as a tool to promote health awareness: results from an online cervical cancer prevention study." 34(4):819-822.
- Guilbeault, Doug, Joshua Becker and Damon Centola. 2018. Proceedings of the National Academy of Sciences. "Social Learning and Partisan Bias in the Interpretation of Climate Trends." 115 (39) 9714-9719.
  - Featured Cover Article
  - 2018 Best Paper Award, International Conference on Computational Social Science Washington Post, <u>PBS News Hour</u>, <u>Bloomberg</u>
- Centola, Damon, Joshua Becker, Devon Brackbill, and Andrea Baronchelli. 2018. *Science*. "Experimental Evidence for Tipping Points in Social Convention." 360: 1116-19.
  - 2019 Honorable Mention for Granovetter Award for Outstanding Article, Mathematical Sociology Section, American Sociological Association
  - The Atlantic, Scientific American, Fast Company
- Fox, E., et al. 2017. *Contraception.* "Birth Control Connections: the Effect of Online Social Communication on Contraceptive Attitudes. 96(4), 290-291.
- Becker, Joshua, Devon Brackbill, and Damon Centola. 2017. *Proceedings of the National Academy of Sciences*. "Learning Is Robust to Noise in Decentralized Networks." 114:E9184.
- Becker, Joshua, Devon Brackbill, and Damon Centola. 2017. *Proceedings of the National Academy of Sciences*. "Network Dynamics of Social Influence in the Wisdom of Crowds." 114 (26): E5070-E5076.

• 2018 Honorable Mention for Outstanding Article, Mathematical Sociology Section, American Sociological Association

Harvard Business Review

- Zhang, Jingwen et al. 2016. *Preventive Medicine Reports*. "Support or Competition? How Online Social Networks Increase Physical Activity: A Randomized Controlled Trial." (4): 453-458. <u>TIME</u>, <u>CBS News</u>, <u>US News & World Report</u>, <u>The Wall Street Journal</u>
- Centola, Damon. 2015. *American Journal of Sociology.* "The Social Origins of Networks and Diffusion." 120 (5): 1295-1338.
  - Featured Lead Article
  - 2017 James Coleman Award for Outstanding Article, Rationality and Society Section, American Sociological Association

Science Newsline

Centola, Damon and Andrea Baronchelli. 2015. *Proceedings of the National Academy of Sciences.* "The Spontaneous Emergence of Conventions: An Experimental Study of Cultural Evolution." 112 (7): 1989-1994.

• 2015 Selected as one of "Stellar Seven" by the section on Communication, Information, and Media Sociology, American Sociological Association

Washington Post, Chicago Tribune, NPR Newsworks, Huffington Post

- Zhang, Jingwen et al. 2015. *Data In Brief*. "Identifying the effects of social media on health behavior: Data from a large-scale online experiment." (5): 453-457.
- Zhang, Jingwen et al. 2015. Preventive Medicine Reports. "Efficacy and causal mechanism of an online social media intervention to increase physical activity: Results of a randomized controlled trial." (2): 651–657.

NPR Newsworks, Tech Times, The Economic Times

- Centola, Damon and Arnout van de Rijt. 2014. *Social Science and Medicine*. "Choosing Your Network: Social Preferences in an Online Health Community." 125: 19-31.
- Teyhen, D., et al. 2014. *Mil. Med.* "Incentives to Create and Sustain Healthy Behaviors: Technology Solutions and Research Needs." (179) 12:1419.
- Teyhen, D., et al. 2014. *JOSPT.* "Key Enablers to Facilitate Healthy Behavior Change." (44) 378-387.
- Centola, Damon. 2013. *Circulation*. "Social Media and the Science of Health Behavior." (127) 2135-2144.
- Centola, Damon. 2013. *Rationality and Society*. "Homophily, Networks, and Critical Mass: Solving the Start-up Problem in Large Group Collective Action." (25) 3-40.
- Centola, Damon. 2013. *Journal of Statistical Physics*. "A Simple Model of Stability in Critical Mass Dynamics." 151 (1) 238-253
- Centola, Damon. 2011. *Science*. "An Experimental Study of Homophily in the Adoption of Health Behavior." 334:1269-72.

CNN, La Repubblica

- Centola, Damon. 2010. *Science*. "The Spread of Behavior in an Online Social Network Experiment. 329:1194-7.
  - 2011 Award for Outstanding Article in Mathematical Sociology, American Sociological Association
  - 2011 Award for Outstanding Contribution to Sociological Methodology, American Sociological Association

New York Times, Wired

- Centola, Damon. 2008. *Journal of Mathematical Sociology*. "Failure in Complex Networks." 33(1): 64-68.
- Centola, Damon and Michael Macy. 2007. *American Journal of Sociology*. "Complex Contagions and the Weakness of Long Ties." 113: 702-34.
  - 2009 Award for Best Publication in Mathematical Sociology, American Sociological Association
  - Reprinted 2012 in Small Worlds Research, by Sebastian Schnettler. New York: Russell Sage Press.
- Centola, Damon, Juan Carlos Gonzalez-Avella, Victor Eguiluz, and Maxi San Miguel. 2007. *Journal of Conflict Resolution*. "Homophily, Cultural Drift, and the Co-Evolution of Cultural Groups." 51: 905-929.

PC World

- Centola, Damon, Victor Eguiluz, & Michael Macy. 2007. *Physica A*. "Cascade Dynamics of Complex Propagation." 374: 449-456.
- Centola, Damon, Robb Willer, and Michael Macy. 2005. *American Journal of Sociology*. "The Emperor's Dilemma: A Computational Model of Self-Enforcing Norms." 110(4):1009-40.
  - 2006 Award for Best Publication in Mathematical Sociology, American Sociological Association
  - Reprinted 2012 in Small Worlds Research, by Sebastian Schnettler. New York: Russell Sage Press.

## Peer-Reviewed Book Chapters

- Zhang, Jingwen and Damon Centola. 2018. "How Social Networks Shape Social Comparison," in *Social Comparison, Judgment & Behavior,* edited by Jerry Suls. New York: Oxford University Press.
- Douglas Guilbeault, Joshua Becker and Damon Centola. 2018. "Complex Contagions: A Decade in Review," in *Spreading Dynamics in Social Systems*, edited by Yong Yeol Ahn and Sune Lehmann. New York: Springer Nature.
- Centola, Damon and M. Macy. 2005. "Social Life in Silico: The Science of Artificial Societies," in *The Handbook of Group Processes*, edited by Susan Whelan. New York: Russell Sage Press.

### Policy Reports

Centola, Damon. (forthcoming) "The Complex Contagion of Doubt in the Anti-Vaccine Movement," in 2019 Annual Report of the Sabin-Aspen Vaccine Science & Policy Group.

### **Op-Ed and Commentary**

Centola, Damon. 2019. "Physician Networks and the Complex Contagion of Clinical Treatment." JAMA
Centola, Damon. 2019. "Influential Networks." Nature Human Behavior.
Centola, Damon. 2019. "The 25 Percent Tipping Point for Social Change." Psychology Today.
Centola, Damon. 2018. "Which is Better, Support or Competition?" Psychology Today.
Centola, Damon. 2018. "The Truth About Behavioral Change." MIT Sloan Management Review.
Centola, Damon. 2018. "What Can 'Alice in Wonderland' Tell Us About Life Online?" Psychology Today.
Centola, Damon. 2018. "Social Learning and Political Polarization" Psychology Today.
Centola, Damon. 2015. "Controlling Public Opinion: What the Debate over 'The Dress' Reveals." The Conversation. April 07 Issue.

### Patents and Technologies

- 2014 "Establishing A Social Network" (Inventor, US Patent# 8713143)
- 2002 "Net Logo" Agent Based Modeling Environment (Developer, Release 1.0)

#### Courses

Computational Social Science: Sociology in the 21<sup>st</sup> Century Agent Based Modeling Designing Internet Experiments Computational Methods: Models and Data Artificial Societies Networks: Theory, Data, and Policy Social Networks and Complex Systems Collective Action and Collective Behavior Social Media and Social Dynamics New Methods for Studying Population Health Web-Based Social Research Social Epidemiology <u>Network Dynamics of Social Behavior</u> (Coursera) System Dynamics (MBA)

### **Invited Talks and Keynote Addresses**

Princeton, Woodrow Wilson School, October 2019 Northwestern, Kellogg School of Management, September 2019 (Keynote) Greater Philadelphia Economy League Annual Meeting, September 2019 Aspen Institute, Vaccine Science & Policy Group, September 2019 (Keynote) Climate Land Use Alliance Annual Meeting, September 2019 Penn Sociology, September 2019 Yale Sociology, September 2019 Harvard Club of New York, May 2019 Princeton, Workshop on Vaccination, May 2019 (Keynote) University of Utrecht, International Meeting on Experimental and Behavioral Social Science Conference, May 2019 Wharton Club of New York, April 2019 Carnegie Mellon, Complex Social Systems Seminar Series, April 2019 National Institute for Mathematical and Biological Synthesis, Tennessee, April 2019 Cornell Tech Graduate Center, March 2019 CUNY Graduate Center, March 2019 Penn, Regional Alumni Club in Jacksonville, January 2019 UCSF, PRISM Health Symposium, December 2018 Stanford, EE Computer Systems Colloquium, November 2018 Penn, Social and Behavioral Science Workshop, November 2018 Penn, Social Norms and Informal Institutions Lecture, November 2018 Penn, Penndemic 2018, October 2018 Smithsonian Institution, October 2018 Microsoft, Workplace Analytics Workshop, October 2018 Amazon Headquarters, Seattle, Washington, October 2018 Penn, Workshop on Norms and Behavior Change, October 2018 NSF, Distinguished Lecture Series, September 2018 Penn Medicine, Neurosurgery Grand Rounds, September 2018 NIH, Meeting on Misinformation and Social Media, August 2018 Princeton, Woodrow Wilson School, August 2018 (Keynote), ICCS, Network Interventions for Social Good, Cambridge, MA, July 2018 (Keynote), IC2S2, Kellogg School of Management, July 2018 Academy of Behavioral Medicine, Hilton Head, June 2018 HB Sports and Entertainment STTAR Summit, June 2018 (Keynote) American Heart Association, June 2018 Penn, IT Symposium, May 2018 (Keynote), Washington University in St. Louis Medical School Symposium, Missouri, April 2018 Stanford, Social Media and Democracy Workshop, California, April 2018 Santa Fe Institute, New Mexico, April 2018 Mailman School of Public Health, Columbia University, April 2018 The National Academies of Sciences, Engineering, Medicine, Washington, D.C., March 2018 Knowledge Teach-In, Penn, March 2018 UCSF, PRISM Conference, December 2017 NYU, Center for Data Science, December 2017 University of Chicago, Computational Social Science Workshop, November 2017 Penn-CMU, Roybal Center on Behavioral Economics and Health Annual Meeting, October 2017 (Keynote) cSCAN, Glasgow, Scotland, October 2017 Santa Fe Institute, New York, July 2017 Analytical Sociology Workshop, Stockholm, Sweden, June 2017 UC Davis, Re-computing Social Sciences Workshop, May 2017 (Keynote) Society for Adolescent Health and Medicine, New Orleans, March 2017 UCLA, California Center for Population Research, February 2017

Harvard, GSE, February 2017 Drexel, Department of Psychology, January 2017 Penn, Behavioral Economics and Health Symposium, December 2016 UCSF, Center for Vulnerable Populations, December 2016 (Keynote) American Heart Association Annual Innovation Forum, Chicago, November 2016 (Keynote) Social Informatics 2016, Seattle, November 2016 Penn-CMU, Roybal Center on Behavioral Economics Annual Meeting, October 2016 Penn, Psychology and Evolutionary Biology, October 2016 Princeton, Department of Sociology, October 2016 Yale, YINS Workshop, September 2016 Stanford, Department of Psychology, July 2016 (Keynote) Norms, Actions and Games Conference, Toulouse, June 2016 WZB Berlin Science Center, Berlin, June 2016 Sorbonne, Paris, June 2016 Institute for Advanced Study, Sweden, June 2016 Cornell, Department of Communications, April 2016 Duke, Department of Sociology, April 2016 (Keynote) Center for Mathematical Sciences Annual Symposium, Auckland, NZ, February 2016 (Keynote) AAAI & World Wide Web and Population Health (W3PHI), February 2016 Northwestern, Kellogg, January 2016 Microsoft Research, Redmond, WA, January 2016 Penn, Language and Cultural Evolution Workshop, December 2015 Penn, Health Communication Speaker Series, December 2015 Penn, Perelman School of Medicine, December 2015 Penn, Elihu Katz Symposium, November 2015 Penn, Warren Center for Network and Data Sciences, October 2015 Colby, Sociology Seminar, October 2015 Rutgers, Center for Cognitive Science, September 2015 ICA Panel on Computational Social Science, Puerto Rico, May 2015 Northwestern, Institute on Complex Systems, May 2015 USC, Gould School of Law, April 2015 Stanford, Psychology Department, April 2015 Stanford, Media X, March 2015 Stanford, Center for Advanced Study in the Behavioral Sciences, February 2015 Northeastern, Network Science Seminar, February 2015 (Keynote) Center for Mathematical Sciences Annual Symposium, Auckland, NZ, December 2014 Columbia, Department of Sociology, Columbia University, November 2014 NIH, National Cancer Institute, Shady Grove, MD, November 2014 Berkeley, Department of Sociology, October 2014 (Keynote) Johns Hopkins, Bloomberg School of Public Health Symposium, October 2014 Cornell, Computational Social Science Seminar, September 2014 Stanford, Symposium on Computational Social Science, August 2014 Penn, Wharton School, August 2014 Microsoft, New York City, June 2014 McDonnell Foundation, Complex Systems Scholars Symposium, May 2014 Penn, Department of Sociology, April 2014 Stony Brook, Institute for Advanced Computational Science, April 2014 UCLA, Institute for Pure and Applied Mathematics, January 2014 Berkeley, Simons Center for the Theory of Computing, November 2013 Harvard, U.S.-China Health Summit, October 2013 Penn, Behavioral Ethics Seminar, Philosophy Department, October 2013 Penn, Decision Process Seminar, Wharton School, October 2013 (Keynote) R.I.T. Big Data Conference, October 2013

Princeton, NIH RAPIDD Workshop, Epidemiology and Networks, October 2013 ASA, Web-Based Social Science Forum, August 2013 Apple, Cupertino, CA, June 2013 UCSF, Center for Vulnerable Populations, UCSF, May 2013 Scott & White Healthcare, Austin, TX, May 2013 Harvard, Causal Inference Conference, May 2013 U.S. Surgeon General's Office, Program for Health Innovation, April 2013 M.I.T, Future ICT Conference, February 2013 M.I.T., Plenary Speaker, Future of Health and Wellness, February 2013 Yale, School of Public Health, January 2013 National Academy of Sciences, Kavli Frontiers of Science Symposium, December 2012 Penn, Annenberg School of Communications, December 2012 Northeastern, Complex Systems Seminar Series, October 2012 Duke Medical School, October 2012 Johns Hopkins Medical School, October 2012 Yale, Sociology Department, September 2012 Boston U., Health Policy Institute, September 2012 Boston U., School of Management, May 2012 M.I.T., Learning Information Decision Sciences Seminar, May 2012 Santa Fe Institute, Science Board Symposium, May 2012 Stanford, Demography and Population Biology, August 2011 Stanford, Research on Algorithms and Incentives in Networks Seminar, June 2011 Columbia, ISERP Seminar, May 2011 Stanford, Economic Networks Seminar, May 2011 Stanford, IRISS Board of Trustees, May 2011 M.I.T., Europe Conference, Vienna, Austria, March 2011 U. of Chicago, Graduate School of Business, March 2011 Princeton, Department of Sociology, November 2010 M.I.T., Industrial Liaison Program, October 2010 ISI Foundation, Complex Systems Lab, Torino, Italy, June 2010 ESCP Europe Business School, May 2010 U. of Maryland, Center for Scientific Computation & Mathematical Modeling, April 2010 (Keynote) Warwick Medical School, Health Sciences Research Institute, March 2010 Warwick Center for Complex Systems, March 2010 Harvard Business School, February 2010 Northeastern, Department of Physics, February 2010 John Snow, Inc., December 2009 NYU Stern, September 2009 Microsoft Research, July 2009 Institute for Cross-Disciplinary Physics and Complex Systems, July 2009 M.I.T., Media Lab, June 2009 M.I.T., Engineering Systems Design Group, May 2009 Stanford, Department of Sociology, April 2009 Princeton, Woodrow Wilson School, April 2009 Berkeley, Department of Sociology, April 2009 Harvard, Kennedy School of Government, April 2009 M.I.T., Organization Studies Group, April 2009 Harvard, Berkman Center / Harvard Law School, April 2009 M.I.T., Sloan School of Management, February 2009 M.I.T., Industrial Liaison Program, December 2008 Princeton, Economic Sociology Workshop, November 2008 Stanford, Networks Seminar, October 2008 M.I.T., Laboratory for Information and Decision Sciences, October 2008

Harvard, Graduate School of Education, May 2008 Harvard, Graduate School of Education, February 2008 Stanford, Graduate School of Business, January 2008 M.I.T., Sloan School of Management, January 2008 Northwestern, Department of Sociology, December 2007 NYU, Department of Sociology, December 2007 U. of Wisconsin, Department of Sociology, Madison, December 2007 Harvard, Workshop on Applied Statistics, October 2007 Harvard, Culture and Social Analysis Workshop, October 2007 Mediterranean Institute for Advanced Studies, August 2007 M.I.T., Economic Sociology Seminar, September 2006 Santa Fe Institute, July 2006 Princeton, Complex Systems Workshop, May 2006 Columbia, Collective Dynamics Group, September 2005 European Science Foundation International Meeting on Physics of Risk, November 2004

### Selected Conference and Working Group Presentations

"Facts or Stories? How to Use Social Media for Cervical Cancer Prevention: A Multi-Method Study and Randomized Controlled Trial of the Effects of Sender Type and Content Type on Message Shares," International Communication Association Conference, May 2019
"Experimental Studies of Critical Mass Dynamics in the Emergence of Social Norms", American Sociological Association, August 2018
"Collective Intelligence in Medical Decision Making", IGNITE Talk, RWJF Pioneer Gathering, NYC, October 2016
"Hacking the System of Networked Social Influence," Wharton School, University of Pennsylvania, December 2015
"Spontaneous Social Conventions," Analytical Sociology Conference, Cambridge, MA, June 2015.
"Emergent Social Networks," ASA Mathematical Sociology Regular Session, Denver, August 2012.
"Dynamics of Emergent Social Structure," INAS, Columbia University, June 2012.
"New Experiments on Social Behavior," Economic Sociology Working Group, M.I.T. November 2009.

- "Free Riding and The Stability of Collective Action" ASA Invited Session on Future Directions in Mathematical Sociology, San Francisco August 2009.
- "Dynamics of Diffusion on Social Networks," ASA Invited Session on Networks, San Francisco August 2009.
- "Diffusion and Network Dynamics," BCNet Workshop: Trends and Perspective in Complex Networks, Barcelona, Spain December 2008.
- "New Theory and Experiments on the Diffusion of Behavior," DIMACS Working Group on Social and Biological Contagion, Rutgers, NJ November 2008.
- "Diffusion of Health Behavior: A Social Network Experiment," Robert Wood Johnson Annual Meeting, Aspen, May 2008.
- "New Theory and Experiments in Diffusion Studies," American Sociological Association Annual Meeting, New York City, August 2007.
- "An Experimental Study of Social Diffusion," Robert Wood Johnson Annual Meeting, Aspen, May 2007
- "New Approaches to Diffusion on Social Networks," Robert Wood Johnson Seminar Series, Harvard School of Public Health, March 2007
- "Empirical Implications of Mathematical Models in Sociology," Research Group on Social Epidemiology, Harvard School of Public Health, November 2006.
- "Free Riding and the Strength of Weak Incentives," Inter-Ivy Sociology Conference, Cornell University, March 2006.

- "Complex Contagions and the Weakness of Long Ties," First International Workshop on Games, Networks, and Cascades, New York City, October 2005.
- "Social Networks and Collective Action," Cornell University Sociology Conference, Ithaca, NY, October 2004.
- "Purposive, Solidary, and Instrumental Incentives in the Mobilization of American Social Groups" (w/Matt Grossman), Empirical Implications of Theoretical Models (EITM), NSF Workshop, Duke University, July 2004.
- "The Stability of Cultural Diversity on Dynamic Networks," First International Winter School on Physics of Socio-Economic Systems, University of Konstanz, February 2004

#### Graduate Student Advising

Chair	Eric Forbush	Annenberg	Current	
Chair	Doug Guilbeault	Annenberg	Current	
Member	Natalie Herbert	Annenberg	Current	
Member	Sijia Yang	Annenberg	2019 Asst. Prof. UW Ma	adison
Chair	Joshua Becker	Annenberg	2018 Post Doc, Northw	/estern
Chair	Devon Brackbill	Annenberg	2016 Data Scientist, Fa	acebook
Member	Jingwen Zhang	Annenberg	2016 Asst. Prof. UC Da	vis

### Departmental and University Service

University of Pennsylvania

- 2019- University Senate Executive Committee
- 2019- Graduate Studies Committee
- 2018- Penn Social and Behavioral Science Initiative
- 2018-9 Digital Media and Technology Committee
- 2018 Tenure Review Committee
- 2017 Ph.D. Admissions Committee
- 2017- Affiliated Faculty, Penn LDI, Center for Health Incentives and Behavioral Economics
- 2016- Mentoring Faculty, Master of Behavioral and Decision Sciences Program
- 2015- Tenure Review Committee
- 2015 Speakers Series Committee
- 2014 Co-Organizer (with Shawndra Hill), Warren Center Symposium
- 2013 Co-Organizer, Warren Center Distinguished Lecture Series
- 2013 Faculty Member, Warren Center for Network and Data Sciences
- 2013 University Committee on Research (Alternate)

<u>M.I.T.</u>

- 2012-13 Member, M.I.T. Committee on Curriculum Design
- 2012-13 Co-Organizer (with Ozge Karanfil), System Dynamics Society Colloquium
- 2011-12 Member, M.I.T. Faculty Reappointment Subcommittee
- 2011-12 Scientific Advisory Committee, Workshop on Information and Decision in Social Networks
- 2008-12 Organizer, Social Dynamics Seminar, M.I.T./Harvard University
- 2009-12 System Dynamics and Economic Sociology Ph.D. Recruitment Committees

### Professional Service

- 2018 Rationality and Society Awards Committee, ASA
- 2018 Organizer, ASA Pre-Conference on Computational Sociology
- 2017-19 IC2S2 Program Committee Member

- 2017 Mathematical Sociology Awards Committee, ASA
- 2017 Co-Organizer, Analytic Sociology Faculty Mentoring Symposium, Stockholm, Sweden, June 2017 (with Peter Hedstrom, Emily Erikson and Elizabeth Bruch)
- 2015- ASA Section Proposal, Analytical Sociology Section, (with Emily Erikson, Peter Hedstrom, and Elizabeth Bruch)
- 2015- Series Co-Editor, Princeton University Press Series in Analytical Sociology
- 2014 Program Committee, International Conference on Social Informatics (DYAD)
- 2013-15 Elected Council Member, Mathematical Sociology Section, American Sociological Association
- 2012- Editorial Board, Journal of Mathematical Sociology
- 2012 Scientific Advisory Committee, ECCS'12 Data-Driven Modeling of Contagion Processes
- 2012 ASA Mathematical Sociology Section Award Committee Member
- 2011-13 Consulting Editor, American Journal of Sociology
- 2011 Organizer, Regular Sessions on Social Networks: Session on Homophily and Tie Dynamics Session on New Theoretical and Empirical Approaches Session on Norms and Networks Session on Organizational and Economic Networks ASA Annual Meeting, Las Vegas, NV
   2007 Organizer, Robert Wood Johnson Brown Bag Seminar Series, Harvard University
   2005 Co-Organizer International Workshop on "Games Networks and Cascades." Networks
- 2005 Co-Organizer, International Workshop on "Games, Networks, and Cascades," New York City (with Michael Macy and Vincent Buskens)
- 2003 Organizer, Interdisciplinary Seminar on Network Dynamics, Cornell University

#### Reviewer

Science, Nature, PNAS, Physical Review Letters, American Journal of Sociology, American Sociological Review, American Journal of Epidemiology, Annual Review of Sociology, American Political Science Review, Management Science, Journal of Communication, Computational Management and Organization Theory, Organization Science, Social Forces, Rationality & Society, Journal of the European Physical Society, JASSS, Journal of Mathematical Sociology, PLoS One, National Science Foundation, The Lancet, The National Academies Institute of Medicine