

DAVID M. J. LAZER
Northeastern University
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EDUCATION

University of Michigan, Ann Arbor, Michigan
Ph.D. in Political Science, May 1996.

Wesleyan University, Middletown, Connecticut
Bachelor of Arts, Economics, May 1988.

ACADEMIC POSITIONS

Northeastern University
Department of Political Science and College of Computer and Information Science
Distinguished Professor, 2014-present.
Full Professor, 2012-2014.
Associate Professor, 2009-2012.

Harvard University
John F. Kennedy School of Government
Visiting Scholar, 2009-present.
Associate Professor of Public Policy, 2003-2009.
Assistant Professor of Public Policy, 1998-2003.

Princeton University, Department of Politics
Lecturer, 1996-1998.

PUBLICATIONS

BOOKS

V. Mayer-Schönberger, and D. Lazer (eds), *Governance and Information Technology: From Electronic Government to Information Government*, MIT press: 2007.

D. Lazer (ed), *DNA and the Criminal Justice System: The Technology of Justice*, MIT press: 2004.

M. Neblo, K. Esterling and D. Lazer. *Directly Representative Democracy*, book manuscript under contract at Cambridge University Press.

JOURNAL ARTICLES

M. Neblo, W. Minozzi, K. Esterling, J. Kingzette, J. Green, D. Lazer, “The need for a translational science of democracy,” Science, forthcoming in 2017.

D. Lazer, J. Radford. “Introduction to Big Data,” Annual Review of Sociology 43, no. 1, forthcoming in 2017.

R. Kennedy, S. Wojcik, D. Lazer, “Improving Election Prediction Internationally,” Science, 2017.

J. Radford, A. Pilny, A. Reichelmann, B. Keegan, B. F. Welles, J. Hoye, K. Ognyanova, W. Meleis, D. Lazer, “Volunteer Science: An Online Laboratory for Experiments in Social Psychology,” Social Psychology Quarterly, 2016.

W. Wang, R. Kennedy, D. Lazer, N. Ramakrishnan. “Growing pains for global monitoring of societal events,” Science, 2016.

D. Margolin, B. Keegan, S. Goodman, Y. Lin, D. Lazer, “Wiki-Worthy: Collective Judgment of Candidate Notability,” Information, Communication and Society, 2015.

D. Lazer, A. Sokhey, M. Neblo, K. Esterling, R. Kennedy, “Expanding the Conversation: Multiplier Effects from a Deliberative Field Experiment,” Political Communication, 2015.

Y. Lin, D. Margolin, D. Lazer, “Uncovering Social Semantics from Textual Traces: A Theory-Driven Approach and Evidence from Public Statements of U.S. Members of Congress,” Journal of the Association for Information Science and Technology, 2015.

D. Lazer, “The Rise of the Social Algorithm,” Science, 2015.

J. Toole, Y. Lin, E. Muehlegger, D. Shoag, M. Gonzalez, D. Lazer, “Tracking employment shocks using mobile phone data,” Journal of the Royal Society Interface, 2015.

J. Shore, E. Bernstein, D. Lazer, “Facts and Figuring: An Experimental Investigation of Network Structure and Performance in Information and Solution Spaces,” Organization Science, 2015.

R. Kennedy, B. Keegan, E. Forbush, D. Lazer, “Turning Introductory Comparative Politics and Elections Courses Into Social Science Research Communities Using Wikipedia: Improving Both Teaching and Research,” PS: Political Science and Research, 2015.

T. Hills, P. Todd, D. Lazer, A. Redish, I. Couzin & the Cognitive Search Research Group (M. Bateson, R. Cools, R. Dukas, L. Giraldeau, M. Macy, S. Page, R. Shiffrin, D. Stephens, J. Wolfe), “Exploration versus Exploitation in Space, Mind, and Society,” Trends in Cognitive Sciences, 2015.

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W. Minozzi, M. Neblo, K. Esterling, D. Lazer, “How Leaders Persuade: Field experiment evidence of substantive, attributional, and behavioral persuasion by Members of Congress in online town halls,” Proceedings of the National Academy of Sciences, 2015.

Y. Lin, D. Margolin, D. Lazer, “Tracing Coordination and Cooperation Structures via Semantic Burst Detection,” EAI Endorsed Transactions on Collaborative Computing, 2014.

J.-P. Onnela, B. Waber, A. Pentland, S. Schnorff, D. Lazer, “Using sociometers to quantify social interaction patterns,” Nature Scientific Reports, 2014.

Y. Lin, B. Keegan, D. Margolin, D. Lazer “Rising Tides or Rising Stars?: Dynamics of Shared Attention on Twitter During Media Events,” PLoS One, 2014.

D. Lazer, R. Kennedy, G. King, A. Vespignani, “The Parable of Google Flu: Traps in Big Data Analysis,” Science, 2014.

S. McClurg, D. Lazer, “Political Networks,” Social Networks, 2014.

Y. Altshuler, M. Fire, E. Shmueli, Y. Elovici, A. Bruckstein, A. Pentland and D. Lazer, “The Social Amplifier – Reaction of Human Communities to Emergencies,” Journal of Statistical Physics, 2013.

K. Esterling, M. Neblo, and D. Lazer, “Connecting to Constituents: The Diffusion of Representation Practices among Congressional Websites,” Political Research Quarterly, 2013.

K. Esterling, M. Neblo, and D. Lazer, “Means, Motive, & Opportunity in Becoming Informed About Politics: A Deliberative Field Experiment with Members of Congress and Their Constituents,” Public Opinion Quarterly 75, 2012: 483-503.

M. Binz-Scharf, D. Lazer, and I. Mergel, “Searching for answers: Networks of Practice among Public Administrators,” American Review of Public Administration, 41(2), 2012: 202-225.

Awarded best paper of the year in ARPA in 2012.

K. Esterling, M. Neblo, and D. Lazer, “Estimating Treatment Effects in the Presence of Noncompliance and Nonresponse: The Generalized Endogenous Treatment Model”, Political Analysis 19, 2011: 205-226.

K. Esterling, D. Lazer, and M. Neblo, “Representative Communication: Website Interactivity & Distributional Path Dependence in the U.S. Congress,” Political Communication, 28, 2011: 409-439.

D. Lazer, I. Mergel, C. Ziniel, K. Esterling, and M. Neblo, “The multiple institutional logics of innovation,” International Public Management Journal, 14, 2011: 311-340.

D. Lazer, “Networks in Political Science: Back to the Future”, PS: Political Science & Politics, 44, 2011: 61-68.

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M. Neblo, K. Esterling, R. Kennedy, D. Lazer, and A. Sokhey, “Who wants to deliberate—and Why,” American Political Science Review 104(3), 2010: 566-583.

Awarded Heinz Eulau award for best paper in the APSR in 2010.

D. Lazer, B. Rubineau, C. Chetkovich, N. Katz, and M. Neblo “The coevolution of networks and political attitudes,” Political Communication 27(3), 2010: 248–274.

N. Eagle, A. Clauset, A. Pentland, and D. Lazer, “Reply to Adams: Multi-Dimensional Edge Inference”, Proceedings of the National Academy of Sciences, March 2, 2010.

N. Eagle, A. Pentland, and D. Lazer, “Inferring friendship structure using mobile phone data,” Proceedings of the National Academy of Sciences, August 17, 2009.

D. Lazer, I. Mergel, and A. Friedman, “Co-citation of prominent social network articles in sociology journals: The evolving canon,” Connections, April, 2009.

D. Lazer, A. Pentland, L. Adamic, S. Aral, A-L Barabasi, D. Brewer, N. Christakis, N. Contractor, J. Fowler, M. Gutmann, T. Jebara, G. King, M. Macy, D. Roy, and M. Van Alstyne “Computational Social Science,” Science, February 6, 2009.

I. Mergel, D. Lazer, and M. Binz-Scharf, “Lending a helping hand: Voluntary engagement in knowledge sharing in a network of professionals,” International Journal of Learning and Change 3(1), 2008.

D. Lazer and A. Friedman, “The network structure of exploration and exploitation,” Administrative Science Quarterly, December, 2007.

J.-P. Onnela, J. Saramäki, J. Hyvönen, G. Szabó, D. Lazer, K. Kaskil, J. Kertész, and A.-L. Barabási, “Structure and tie strengths in mobile communication networks,” Proceedings of the National Academy of Sciences, May 1, 2007.

F. Bieber, C. Brenner, and D. Lazer, “Finding Criminals Through DNA of Their Relatives,” Science, June 2, 2006.

D. Lazer, “Global and Domestic Interdependence: Modes of Interdependence in Regulatory Policymaking.” European Law Journal, 2006.

D. Lazer, and V. Mayer-Schönberger, “Statutory Frameworks for Regulating Information Flows: Drawing Lessons for DNA Data Banks from other Government Data Systems.” Journal of Law, Medicine, and Ethics, 2006.

D. Lazer, “Regulatory Capitalism as a Networked Order: The International System as an Informational Network,” Annals of the American Academy of Political and Social Science, March, 2005.

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K. Esterling, D. Lazer, and M. Neblo "Home (Page) Style: Determinates of the Quality of House Members' Websites," International Journal of Electronic Government Research 2(1), 2005.

N. Katz, D. Lazer, H. Arrow, and N. Contractor "Network Theory and Small Groups," Small Group Research 35(3), June 2004.

D. Carpenter, K. Esterling, and D. Lazer, "Friends, Brokers and Transitivity: Who Informs Whom in Washington Politics?" Journal of Politics, February 2004.

D. Lazer, and V. Mayer-Schönberger, "Staying Connected," Harvard Generations Journal, Winter 2004.

C. Coglianese, D. Lazer, "Management-Based Regulation: Prescribing Private Management to Achieve Public Goals," Law & Society Review, December 2003.

D. Carpenter, K. Esterling, and D. Lazer, "The Strength of Strong Ties: A Model of Contact-Making in Policy Networks with Evidence from U.S. Health Politics," Rationality and Society, November 2003.

D. Lazer, and V. Mayer-Schönberger, "Governing Networks," Brooklyn Journal of International Law, 27(3), 2002.

D. Lazer, "Regulatory Interdependence and International Governance," Journal of European Public Policy, April 2001, 474-492.

D. Lazer, "The Co-evolution of Individual and Network," Journal of Mathematical Sociology, January 2001: 69-108.

D. Lazer, "The Free Trade Epidemic of the 1860s and Other Outbreaks of Economic Discrimination," World Politics, July 1999.

D. Carpenter, K. Esterling, and D. Lazer, "Strength of Weak Ties in Lobbying Networks: Evidence from Health-Care Politics in the United States," Journal of Theoretical Politics, October 1998.

PEER REVIEWED COMPUTER SCIENCE CONFERENCES

[note: in computer science, conference proceedings are the typical terminal publication and roughly equivalent to a journal article in the social sciences]

D. Lazer, O. Tsur, and T. Eliassi-Rad. "Understanding Offline Political Systems by Mining Online Political Data." In *Proceedings of the Ninth ACM International Conference on Web Search and Data Mining*, pp. 687-688. ACM, 2016. [workshop]

C. Kliman-Silver, A. Hannak, D. Lazer, C. Wilson, & A. Mislove, "Location, Location, Location: The Impact of Geolocation on Web Search Personalization", Internet Measurement Conference (*IMC '15*), Tokyo, 2015.

O. Tsur, D. Calacci, D. Lazer, “A Frame of Mind: Using Statistical Models for Detection of Framing and Agenda Setting Campaigns,” Association for Computational Linguistics (*ACL '15*), Beijing, 2015.

J. Radford, B. Keegan, J. Hoye, C. Karbeyaz, K. Ognyanova, B. Foucault Welles, W. Meleis and D. Lazer, “Conducting Massively Open Online Social Experiments with Volunteer Science,” *International AAAI Conference on Web and Social Media (ICWSM '15)*, Oxford 2015.

A. Hannak, G. Soeller, D. Lazer, A. Mislove, and C. Wilson, “Measuring Price Discrimination and Steering on E-commerce Web Sites,” *Internet Measurement Conference (IMC '14)*, Vancouver, November 2014.

A. Hanna, P. Sapiezynski, A. Molavi Kakhki, B. Krishnamurthy, B., D. Lazer, A. Mislove, and C. Wilson, “Measuring personalization of web search” in *Proceedings of the 22nd international conference on World Wide Web (WWW '13)*, Rio de Janeiro, May 2013.

Y. Lin, D. Margolin, B. Keegan, D. Lazer, “Voices of victory: A computational focus group framework for tracking opinion shift in real time,” in *Proceedings of the 22nd international conference on World Wide Web (WWW '13)*, Rio de Janeiro, May 2013.

Y. Lin, D. Margolin, B. Keegan, A. Baronchelli, D. Lazer, “#Bigbirds Never Die: Understanding Social Dynamics of Emergent Hashtags,” in *Proceedings of the 7th Annual International Conference on Weblogs and Social Media (ICWSM '13)*, Boston, July 2013.

Y. Lin, D. Margolin, B. Keegan, M. Martino, S. Goodman, D. Lazer “Catching fish in the stream: real time analysis of audience behavior in social media,” *Proceedings of the conference on computer supported cooperative work (CSCW 2013)*, San Antonio, TX, USA — February 23 - 27, 2013.

D. Margolin, Y. Lin, D. Brewer, D. Lazer, “Matching Data and Interpretation: Towards a Rosetta Stone Joining Behavioral and Survey Data,” The 2nd When the City Meets the Citizen Workshop, ICWSM 2013.

Y. Altshuler, M. Fire, E. Shmueli, Y. Elovici, A. Bruckstein, A. Pentland and D. Lazer, “Detecting Anomalous Behaviors Using Structural Properties of Social Networks,” *International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction (SBP)*, 2013.

N. Cao, Y. Lin, X. Sun, D. Lazer, S. Liu and H. Qu, “Whisper: Tracing the Spatiotemporal Process of Information Diffusion in Real Time,” *IEEE Information Visualization 2012*, (also in *IEEE Transactions on Visualization and Computer Graphics*).

Y. Lin, J. Bagrow, and D. Lazer, “More Voices than Ever? Quantifying Media Bias in Networks,” *Proceedings of the 5th Annual International Conference on Weblogs and Social*

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Media (ICWSM '11), Barcelona, 2011. Also, Y Lin., J. Bagrow, D. Lazer, D. Quantifying Bias in Social and Mainstream Media. SIGWEB Letters, Fall 2012.

A Madan, S. Moturu, D. Lazer, and A Pentland “Social Sensing: Obesity, Unhealthy Eating and Exercise in Face-to-Face Networks”, proceedings of *ACM Wireless Health 2010*, San Diego, 2010.

A Madan, M. Cebrian, D. Lazer, and A. Pentland “Social Sensing to Model Epidemiological Behavior Change”, *Proceedings of ACM Ubicomp 2010*, Copenhagen (Nominated for Best Paper), 2010.

BOOK CHAPTERS

D. Lazer and S. Wojcik, “Political networks and computational social science,” in J. N. Victor, A. H. Montgomery, and M. Lubell, *The Oxford Handbook of Political Networks*, Oxford University Press, 2016.

D. Lazer, “Networks and politics: the case of human rights,” in R. Goodman, D. Jinks, & A. Woods, *Understanding Social Action, Promoting Human Rights*, Oxford University Press, 2012.

D. Lazer, E. Bernstein, “Problem solving and search in networks,” in Todd, P.M., Hills, T.T., and Robbins, T.W., *Cognitive search: Evolution, algorithms, and the brain*. Strüngmann Forum Reports, vol. 9. Cambridge, MA: MIT Press, 2012.

D. Lazer, K. Esterling and M. Neblo, “The Internet and the Madisonian Cycle: Possibilities and Prospects for Consultative Representation,” in S. Coleman and P. Shane, *Connecting Democracy: Online Consultation and the Flow of Political Communication*. MIT Press, 2011.

D. Lazer, M. Binz-Scharf, “It takes a network to build a network,” in V. Mayer-Schönberger and D. Lazer. *Governance and Information Technology: From Electronic Government to Information Government*. MIT Press, 2007.

V. Mayer-Schönberger and D. Lazer, “From Egov to Igov,” in V. Mayer-Schönberger and D. Lazer. *Governance and Information Technology: From Electronic Government to Information Government*. MIT Press, 2007.

V. Mayer-Schönberger and D. Lazer, “The Governing of Government Information,” in V. Mayer-Schoenberger and D. Lazer. *Governance and Information Technology: From Electronic Government to Information Government*. MIT Press, 2007.

K. Esterling, D. Lazer, and M. Neblo “Managing the web: how Members of Congress use the Internet,” in *Advanced Topics in Electronic Government Research*, Donald Norris, editor, Hershey, PA: Idea Group 2006.

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N. Katz, D. Lazer, H. Arrow, and N. Contractor, "Network Theory and Group Research," in Poole, M. S., & Hollingshead, A. B. (Eds.) (in press). *Theories of Small Groups: Interdisciplinary Perspectives*. Thousand Oaks, CA: Sage 2005.

D. Lazer, "Introduction: DNA and the Criminal Justice System," in D. Lazer (ed), *DNA and the Criminal Justice System: The Technology of Justice*, MIT press, 2004.

D. Lazer, and M. Meyer "DNA and the Criminal Justice System: Consensus and Debate," in D. Lazer (ed), *DNA and the Criminal Justice System: The Technology of Justice*, MIT press, 2004.

D. Lazer, "Information and Innovation in a Networked World," in in R. Breiger, K. Carley, P. Pattison, *Dynamic Social Network Modeling and Analysis: Workshop Summary and Papers* (National Academies Press, 2003).

C. Coglianese and D. Lazer, "Management-Based Regulatory Strategies," in J. Donahue and J. Nye (Eds.), *Market-Based Governance: Supply Side, Demand Side, Upside, and Downside*, Washington, DC: Brookings, 2002.

V. Mayer-Schönberger and D. Lazer, "Blueprints for Change: Devolution and Subsidiarity in the United States and the European Union," in K. Nicolaidis and R. Howse (eds), *The Federal Vision: Legitimacy and Levels of Governance in the US and the EU*, Oxford: Oxford University Press, 2001.

J. Ahouse, E. Bruderer, A. Gelover-Santiago, N. Konno, D.Lazer, and S. Veretni "Reality Kisses the Neck of Speculation: A Report From the NKC Workgroup," in *1991 Lectures in Complex Systems*, eds. L. Nadel and D. Stein, Addison-Wesley, 1992.

ENCYCLOPEDIA ENTRY

D. Lazer, International coordination of regulation. *The New Palgrave Dictionary of Economics. Online Edition*. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2009

HARVARD KENNEDY SCHOOL TEACHING CASES

The Massachusetts DNA Database: Getting Started

The Massachusetts DNA Database: Getting Started Sequel

Reducing the Complaints Backlog at the Equal Employment Opportunity Commission

BOOK REVIEWS

D. Lazer, Review of *Reinventing Environmental Regulation: Lessons from Project XL* in *Journal of Policy Analysis and Management*, Winter, 2004.

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D. Lazer, Review of *Emergent Actors in World Politics: How States and Nations Develop* in Journal of Artificial Societies and Social Simulation, March 2001.

OPEDS

R. Kennedy, D. Lazer, O. Tsur, What He Talked About: From sports to threats to foreign countries, here are seven years of Obama's preoccupations in the speeches he gave—charted. *Politico Magazine*, January/February 2016.

D. Lazer, R. Kennedy, What we can learn from the epic failure of Google Flu Trends, *Wired*, October 1, 2015.

D. Lazer, O. Tsur, K. Ognyanova, R. Kennedy, DATA: Trump won the debate—or at least talked the most, *Politico*, August 13, 2015.

D. Lazer, O. Tsur, K. Ognyanova, R. Kennedy, Debate data reveals it's still the Trump show, *Politico*, September 20, 2015.

D. Lazer, O. Tsur, K. Ognyanova, How Congress sees the world, in charts, *Politico*, June 10, 2015.

D. Lazer and M. Neblo, “Can Members of Congress Change Your Mind? Yes, they just have to talk to you,” *Politico*, April 19, 2015.

D. Lazer, “Mistaken Analysis,” *Technology Review*, May, 2014.

D. Lazer and F. Bieber, “Familial Searching, its promise and perils,” *LA Times*, July 10, 2010.

F. Bieber and D. Lazer, “DNA Sweep Must Be Accompanied by Informed Consent,” *Provincetown Banner*, January 20, 2005.

F. Bieber and D. Lazer, “Guilt by Association?” *The New Scientist*, September 23, 2004.

F. Bieber and D. Lazer, “Lessons Learned from a Miscarriage of Justice,” *Boston Globe*, April 12, 2003.

REPORTS

D. Lazer, R. Kennedy, D. Margolin, Communication in the Aftermath of the Boston Marathon Bombing (August 16, 2013). Available at SSRN: <http://ssrn.com/abstract=2311255>.

K. Esterling, D. Lazer, and M. Neblo, “Improving Congressional Websites”, Brookings Foundation, August 2010.

D. Lazer, M. Neblo, K. Esterling, and K. Goldschmidt, “Online Town Hall Meetings: Exploring Democracy in the 21st Century”, The Congressional Management Foundation, October 26, 2009.

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C. Burden, T. Hystrom, D. Lazer, K. Esterling, and M. Neblo, “2007 Gold Mouse Report: Lessons from the Best Web Sites on Capitol Hill”, 2007, The Congressional Management Foundation.

D. Lazer and I. Mergel, “An Evaluation of the Impact of State Health Leadership Initiative on the Social Capital among State Health Officials: A report prepared for the Robert Wood Johnson Foundation”, 2008.

AWARDS

Winner of best paper in ARPA in 2012 (for M. Binz-Scharf, D. Lazer, and I. Mergel, “Searching for answers: Networks of Practice among Public Administrators”).

Heinz Eulau award for best paper in the APSR in 2010 (for M. Neblo, K. Esterling, R. Kennedy, D. Lazer, and A. Sokhey, “Who wants to deliberate—and Why”).

Political Networks section award for best paper presented at 2011 American Political Association meeting (for D. Lazer, A. Sokhey, M. Neblo, and K. Esterling, “Difference and Deliberation”).

SELECTED INVITED TALKS

“Computational Social Science”, Michigan State University, November 2016.

“Online Experiments with Volunteer Science” International Conference on Computational Social Science, Kellogg School, Northwestern, June 2016. (invited workshop, with Jason Radford)

“The need for preservation,” Saving the Web: The Ethics and Challenges of Preserving What’s on the Internet, The Library of Congress, June 2016.

“Tools for 21st Century Social Science,” IQSS, Harvard, January 2016

Round table on “Big data and economics” at IMF symposium on Big data and analytics, November, 2015.

“Computational social science and studying urban settings”, workshop on “Bringing Social Science Back In: The “Big Data” Revolution and Urban Theory,” Radcliffe Institute, December 16, 2014.

“Computational Social Science: The Use of “Big Data” to Study Human Behavior”, STS Circle, Harvard University, September 15, 2014.

“Emergent money networks,” Workshop on the emergence of organizations and markets, Radcliffe, Harvard University, June 30, 2014.

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“The emergence of a ‘computational social science’: Opportunities and barriers,” University of Lugano, June 5, 2014.

“Opportunities and Challenges in Using Big Data to Understand Human Systems,” Wellesley, April 25, 2014.

“Opportunities and Challenges in Using Big Data to Understand Human Systems,” Harvard Business School, April 23, 2014.

“Collective problem solving: how we think together”, The Tepper School of Management, Carnegie Mellon University, November 8, 2013.

“Opportunities and Challenges in Using Big Data to Understand Human Systems”, Information School, University of Pittsburgh, November 7, 2013.

“Data Mining and the DPLA,” DPLAfest, Northeastern University, October 25, 2013.

“Studying the Social from "Big Data" Derived from Sociotechnical Systems,” The Workshop on Information in Networks, NYU, October 4, 2013.

“Big data, big insights?” at workshop on Towards a European Laboratory on Big Data Analytics and Social, Mining: University of Pisa, July 18, 2013.

“Big data, big insights?” IMT Institute for Advanced Studies, Lucca July 11, 2013.

“How we think together”, Cornell, March 4, 2013.

“Network Science meets Political Science,” symposium speaker at AAAS, February 15, 2013.

“Will "big data" yield big insights about human society?” The Institute for Applied Computational Science, Harvard University, November 30, 2012.

“Gleaning insights from digital traces of human behavior,” Boston University, October 26, 2012.

“The role of networks in building prosperity,” Global Empowerment Meeting 2012, Harvard, October 25, 2012.

“Political networks,” Workshop on information in networks, NYU, September 28, 2012.

“The governance of knowledge networks in decentralized systems”, University of Hamburg, July 4, 2012.

“The Madisonian Cycle in the 21st century,” on panel, *Connecting Democracy: Online Consultation and the Flow of Political Communication*, Harvard Law School, February 7, 2012.

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“How computational social science reads our digital traces,” Swissnex Boston, November 29, 2011.

“How we think together,” Brandeis University, November 9, 2011.

“How we think together,” Business Complexity and Global Leader Conference, Suffolk University, October 19, 2011.

“Computational Social Science: What should be next?,” Workshop on Information in Networks, NYU, September 30, 2011.

“Issues in studying human networks,” Netsci, Budapest, June 7, 2011.

“How we think together,” UMass, April 22, 2011.

“Computational social science meets open government,” White House Open Government Research and Development Summit, March 21, 2011.

“Social network analysis,” at Technical Exchange on Smart Power in Action: the Science and Technology of Strategic Communication, organized by MITRE, McLean, VA, January 19, 2011.

“Field experiments: online townhalls,” Center for Public Leadership, Harvard University, November 29, 2010.

“Life in the network: The coming age of computational social science,” Northeastern’s Vice Provost’s Research seminar series, November 29, 2010.

“Following the Money Networks in American Politics,” Insights speaker series, Northeastern University, November 17, 2010.

“The use of familial searching in criminal justice investigations,” Program on Criminal Justice and Management, Harvard Kennedy School, October 25, 2010.

“Network science and web science,” Web Science: Exploring the Frontier, The Royal Society, September 29, 2010

“How we think together: the role of social networks in collective problem solving,” Cabdyn Complexity Center, Oxford University, September 31, 2010.

“How we think together: the role of social networks in collective problem solving,” Workshop on Information in Networks (WIN), NYU, September 24, 2010.

“Building a Computational Social Science,” at the Graph Exploitation Symposium (Lincoln Laboratory), April 13-14, 2010

“Computational social science,” at Toward Socially Coupled Systems & Informatics:

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Science, Computing & Decision Making in a Complex Interdependent World, July 13-14, 2010.

“How we think together: the role of social networks in collective problem solving,” Netsci meetings, May 2010.

“How we think together,” Northwestern Institute on Complex Systems, December 2, 2009.

“Program evaluation and network analysis,” Robert Woods Johnson Foundation, October 29, 2009.

“Computational social science,” at the Workshop on information in networks, NYU, September 25, 2009.

“Political Networks,” JASON working group, Department of Defense, June 23, 2009 (videoconferenced).

“Life in the network: The coming age of computational social science” (Microsoft Research, Cambridge, MA, May 26, 2009).

“Life in the network: The coming age of computational social science” (Networks and complex systems seminar, Indiana University, May 4, 2009).

“How we think together: the role of social networks in collective problem solving.” (Cognitive Science seminar, Indiana University, May 4, 2009)

“Structures and Properties of ‘Network Power’” (Workshop on From Social Network to Social Movement, Berkman Center, Harvard University, April 1, 2009).

“Life in the network: The coming age of computational social science” (Symposium organizer and speaker at AAAS, February 13, 2009).

Keynote address on network science (BCNetWORKSHOP 2008, University of Barcelona, December 10, 2008).

“What can be learned from massive social network data sets?” (Statistical Inference for Complex Networks workshop, Santa Fe Institute, December 3, 2008)

“Studying social networks” (Complex Systems Conference, National Academies Keck Futures Initiative: November 12-15, 2008).

“The tragedy of the network” (Columbia Business School, Columbia University: September 23, 2008).

“Studying social networks” (Networks in Political Science, Harvard University: June 12, 2008).

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“Life in the network: The coming age of computational social science” (Whitney Symposium General Electric, Rennsalaer, NY: June 4, 2008).

“The tragedy of the network” (The Heinz School, Carnegie Mellon University: March 26, 2008).

“The tragedy of the network” (Northeastern University: March 20, 2008).

“Life in the network: The coming age of computational social science” (Computational Social Science Conference, Harvard University: December, 2007

“The social structure of exploration and exploitation” (Boston College: November, 2007).

Keynote address at NetSci conference (New York City, May 21, 2007).

EXTERNAL SUPPORT

Grants totaling more than \$10m from the NSF, ARO, ARL, ONR, IARPA, DTRA, Russell Sage Foundation, Knight Foundation, Keck Foundation, Robert Woods Johnson Foundation. Information available upon request.

TEACHING

Studying Social Networks: Spring, 2017
The Information Science Capstone: Spring, 2015
Studying Social Networks: Spring, 2015
The Information Science Capstone: Spring, 2014
The Information Science Capstone: Spring, 2013
The Networked Society (Honors): Spring, 2012
The Information Science Capstone: Spring, 2012
The Networked Society (Honors): Spring, 2011
The Information Science Capstone: Spring, 2011
Building Organizational Social Capital: Spring, 2010
The Information Science Capstone: Spring, 2010

PUBLIC AND INSTITUTIONAL SERVICE

To the University:

Director of Graduate Studies, Network Science doctoral program, 2016-present

Network Science hiring committee 2016-2017

Cybersecurity hiring committee 2016-2017

Co-director, NULab for Texts, Maps, and Networks, 2012-present

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Co-chair, cluster search in Digital Humanities and Computational Social Science, 2012-15

Co-chair, cluster search in Data Science, 2012-2013

Chair, senior search in the "Digital Humanities", 2011-2012

PhD committee, 2010-2011

IS advisory committee, Northeastern, 2010-2011

Dean search committee 2009-2010

Senior Network Science hiring committee, 2009-2010

IS advisory committee, Northeastern, 2010-2011

Advisory Board, Humanities Center, 2009-present

Part of committee discussing structure of Information Assurance PhD

Currently co-leading effort to develop Network Science Ph.D., to be launched in 2014

To the profession:

Member of advisory board of Kavli Human Project.

Founding board member of the International Society for Computational Social Science.

Founder of Volunteer Science, platform for online experimentation.

NORC Advisory Committee on Statistics, Machine Learning and High Performance Computing, 2014-present.

Conference Committee, Humanitarian Technology, MIT 2015.

Conference Committee, NetMob, MIT 2015.

Conference Committee, Humanitarian Technology, MIT 2014.

Member, Program Committee, ICWSM, 2014.

Member, Program Committee, Netsci, 2013.

Member of working group at Russell Sage on "Mechanisms of Elite Influence on Political Life," 2012-2013.

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John D. and Catherine T. MacArthur Foundation steering group to create a Research Network on Open Government, 2012-2013.

Board of reviewing editors, *Science*.

Associate Editor, *Social Networks, Network Science*.

Editorial Board, *EPJ Data Science, Regulation and Governance, Journal of Information, Technology, and Politics, I/S*.

Chair/founder of Northeastern/Harvard/MIT Workshop on Computational Social Science, 2012.

Member, Board of International Network of Social Network Analysts (INSNA).

Member, steering committee, Boston Area Research Initiative.

Member, International Advisory Board, SocialCom, Stanford, CA, USA, May 27 - May 31, 2014

Member, Conference Committee, Humanitarian Technology: Science, Systems and Global Impact 2014, Cambridge MA, May 13-15, 2014

Member, Program Committee, Computational Approaches to Social Modeling (ChASM), 2014.

Member, Program Committee, Netsci, Copenhagen, June 3-7, 2013.

Member, Scientific Committee, Interdisciplinary Workshop on Information and Decision in Social Networks, MIT, November 8-9, 2012.

Member, Advisory Committee, The Third IEEE International Conference on Social Computing, Hawaii, July 24-28, 2011.

Member, Program Committee, Websci 11, Koblenz, Germany, June 15-17, 2011.

Member, Scientific Committee, WIDS Workshop on Information and Decision in Social Networks, MIT, May 31-June 1, 2011.

Member, Program Committee, Computational Social Science and the Wisdom of Crowds, Workshop at NIPS 2010 (Dec, 2010).

Member, Advisory Committee, Netsci 2010, Boston, MA.

Member, Program Committee, Workshop on Social Computing with Mobile Phones & Sensors: Modeling, Sensing and Sharing, IEEE International Conference on Social Computing, August 29-31 2009, Vancouver, Canada

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Member, Program Committee, SCMPS 2009.

Member, Program Committee, SMW 2009.

Co-founder and co-chair (2008-09) and first APSA section chair of *Political Networks*.

Co-organizer and host of 2008 and 2009 Political Networks conferences at Harvard University.

Technical contributions co-chair of Engaging Data conference, MIT, October 12-13, 2009.

Member of DNA Database Expansion Working Group, Executive Office of Public Safety, Commonwealth of Massachusetts, 2008-09.

Director and founder, Program on Networked Governance (see www.hks.harvard.edu/netgov).

Chair and co-founder of (Harvard-wide) Cambridge Colloquium on Complexity and Social Networks (see www.hks.harvard.edu/complexity).

Chair and founder of the DNAPolicy.net initiative: this is an initiative for a web-based enabling of discussion around the use of DNA in the criminal justice system (www.DNAPolicy.net).

Convener of the netgov blog.

Associate Director (2004-2006) and co-founder of the *National Center on Digital Government*.

Co-chair of *Trans-Atlantic Initiative on Complex Organizational Networks* (TAICON).

Member of NSF-funded International Working Group on Online Consultation and Public Policy Making, 2007-2009 (see www.reconnectingdemocracy.org/).

Methodological Area Chair for Strategic Management at Harvard Kennedy School, 2000 to 2007.

Co-investigator, with the American Society for Law, Medicine, and Ethics, on \$1,000,000 NIH grant on *DNA Fingerprinting and Civil Liberties Project*, 2003 to 2005.

Consultant with Booz Allen Hamilton on homeland security interoperability evaluation, 2006.

Reviewer for *American Political Science Review*, *Academy of Management Review*, *Academy of Management Journal*, *Administrative Science Quarterly*, *Organization Science*, *American Journal of Sociology*, *American Journal of Political Science*, *Journal of Politics*, *Journal of Public Administration Research and Theory*, *International Public Management Journal*, *Regulation and Governance*, *Proceedings of the National Academy of Sciences*, *Nature*.

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Served on the dissertation committees of: Anca Hannak, Shahram Haydari, Delia Mocanu, Qian Zhang, Dashun Wang, Allan Friedman, Elta Smith, Maria Binz-Scharf, Thomas Langenberg, Adam Henry, Benjamin Waber, Anmol Madan, Wen Dong, Kevin Williams.

Pre and post-doctoral fellows sponsored: Maria Binz-Scharf, Thomas Langenberg, Jason Greenberg, Adam Henry, Matthew Hindman, Jeffrey Boase, Rajiv Shah, Alexander Schellong, Audrey Selian, Birgit Rabl, Kevin Esterling, Kenneth Cukier, Jose Gil Ramon Garcia, Steven Jackson, Sune Lehmann, Jeanne Mengis, Ines Mergel, Jukka-Pekka Onnela, Skyler Place, Sebastian Schnorf, Yu-ru Lin, Sasha Goodman, Jesse Chu-Shore, Mauro Martino, Yaniv Altschuler, Wen Dong, Drew Margolin, Oren Tsur, Katya Ognyanova, Brian Keegan, Navid Dianati, Stefan Wojcik.

RECENT SELECTED MEDIA COVERAGE AND APPEARANCES

On NPR's *All Things Considered*, "Data Scientists Find Consistencies In Donald Trump's Erratic Twitter Strategy," August 18, 2016.

Stories on "Tracking employment shocks using mobile phone data" appeared in the *Wall Street Journal*, the *Boston Globe*, *Ars Technica*, and other outlets (2015).

"At Work: There's a Downside to Collaboration," story on "Facts and Figuring" in the *Wall Street Journal* (5/20/15).

Stories on "How Leaders Persuade" appeared in the *Boston Globe* (3/27/15), the *Washington Post* (on the Monkey Cage blog), Smithsonian.com, the Conversation.

Stories on "Measuring Price Discrimination and Steering on E-commerce Web Sites" appeared in numerous outlets in 2015, including the *Boston Globe* (p. 1), CBS Evening News, ABC's Good Morning America, the *Wall Street Journal*, NPR, *Washington Post*, featured story in the *New Scientist*.

"Gabby Women, Silent Men? Maybe Not," *New York Times* (7/23/14). Other coverage for "Using sociometers to quantify social interaction patterns," in *Huffington Post*, *Daily News*, *LiveScience*, *Time*, *New York Magazine*.

"Want to Brainstorm New Ideas? Then Limit Your Online Connections," *New York Times* (Bits Blog) (7/4/14).

"Google Flu Trends promises are overstated, researchers say," *The Guardian* (7/4/14).

"In Backlash Over Facebook Research, Scientists Risk Loss of Valuable Resource," *Chronicle of Higher Education* (7/1/14).

"GOP pushes funding cuts for social science work," *Boston Globe* (p. 1), (4/14/14).

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Stories on “The Parable of Google Flu: Traps in Big Data Analysis,” appeared in numerous news outlets in March 2014, including *The New York Times*, *The Washington Post*, *The Economist*, *The Atlantic*, *The Guardian*, *Chronicle of Higher Education*, NPR.

“Researchers Struggle to Secure Data in an Insecure Age,” *Chronicle of Higher Education* (9/13/13).

“Researchers try to map social contacts after bombings,” *Boston Globe*, (5/04/2013).

“Money in politics never looked so pretty,” *TechPresident* (9/19/2012)

“Facebook friends’ voting has impact on Election Day turnout, study finds,” *Washington Post* (9/12/2012)

“How Facebook could help swing the US election,” *The New Scientist* (9/12/2012)

“Computational social science: Making the links,” *Nature* (8/22/2012)

“Presidential Campaign Funding: The Movie,” *Politico* (6/12/2012)

“The machine that would predict the future,” *Scientific American* (December, 2011).

“Study examines mood cycles shared on Twitter”, USA Today (9/30/2011)

Using Twitter To Tap Into The Mood Of The Planet, *NPR*,
<http://www.npr.org/2011/09/29/140927259/twitter-data-reveal-the-mood-of-the-planet>
(9/29/2011)

“Law enforcement still holds DNA from Worthington case,” *WBUR* (8/30/2011)

Referenced in Gareth Cook op ed, “The Ties that Find,” *Boston Globe* (5/15/2011)

Research extensively referenced in “Whodunit,” *Boston Globe Magazine* (10/31/2010)

“Virginia may nab serial rapist through blood relative DNA”, *abcnews.com* (8/9/2010).

“Grim Sleeper brings familial searching to the fore,” interview on “All things considered,”
NPR (7/13/2010).

“Familial DNA leads to an arrest,” interview on *KQED* (7/9/2010).

Research cited in *Boston Globe* op ed by Michael Neblo, “Town halls, without the screaming or scripting,” (8/30/2009)

“Virtual town halls gaining popularity,” *Politico* (8/6/2009)

“Researchers Mine Cell Phone Data for Insight Into Human Behavior,” *PBS NewsHour*
(5/15/2009)

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“Search engines provide information about epidemics,” *Nature* (11/19/2008)

“Obama’s Machine,” *Forbes*, (11/5/2008)

“You May Soon Know if You’re Hogging the Discussion,” *New York Times* (10/26/2008)

“DNA Evidence Gains Acceptance As a Key Tool in Robbery Cases,” *Wall Street Journal* (6/19/2008).

Research cited in PBS show, *Religion and Ethics Weekly* (5/16/2008).

Research cited in “The Gene Police,” *Wall Street Journal* (2/28/2008).

Research cited in “Technology and Government,” (2/14/2008), *The Economist*.

Appeared on *NPR*, “Legal Limits Murky for Use of ‘Discarded’ DNA” and “Police Use DNA to Track Suspects Through Family.” (12/12/2007).

“Data sharing threatens privacy,” *Nature*, (10/10/2007).

Research appeared in “Not so Perfect Match,” *60 Minutes* (4/2/2007).

Stories on “Finding Criminals Through DNA of Their Relatives,” appeared in over 100 news outlets in May, 2006, including prominent stories in: *New York Times*, *Washington Post*, *ABC News*, *NPR*, *BBC*.