

JAMES ALLEN EVANS

Department of Sociology, University of Chicago, Chicago IL 60637.
Phone: 773.834-3612 (O); 773.324.1393 (H). Fax: 773.702.4849.
Email: jevans@uchicago.edu Web: <http://home.uchicago.edu/~jevans>
ORCID ID: 0000-0001-9838-0707

PROFESSIONAL EXPERIENCE

- 2015— Director, Computational Social Science Masters Program, University of Chicago.
- 2013— Director, Knowledge Lab and Senior Fellow, Computation Institute, University of Chicago (<http://knowledgelab.org>).
- 2011— Associate Professor (with tenure). Department of Sociology, Committee on Conceptual and Historical Studies of Science, and the College, University of Chicago.
- 2004-11 Assistant Professor. Department of Sociology, Committee on Conceptual and Historical Studies of Science, and the College, University of Chicago.
- 2005-08 Associate Editor, *American Journal of Sociology*.
- 2000 Instructor. Department of Sociology, Stanford University
- 1995-97 Research Associate. Graduate School of Business, Harvard University
- 1992-93 Co-founder and Executive Director. Utah High School for the Performing and Fine Arts

EDUCATION

- 1999-04 Ph.D. in Sociology. Stanford University. Committee: Mark Granovetter, Walter W. Powell, Stephen R. Barley.
- Dissertation: *Sharing the Harvest: The Uncertain Fruits of Public/Private Collaboration in Plant Biotechnology*.
- 1997-99 M. A. in Sociology. Stanford University.
- 1994 B. A. in Anthropology. Brigham Young University. Valedictorian of the College of Social Sciences.

PUBLICATIONS

- Foster, Jacob G., and James A. Evans. "Promiscuous Inventions: Modeling Cultural Evolution with Multiple Inheritance." *Beyond the Meme*. Ed. William C. Wimsatt and Alan Love. Minneapolis: University of Minnesota Press, 2016.

- Tutterow, Craig and James Evans. 2015. "The Small Measured Effect of Metrics and Rankings on Universities: A Systematic Review". *Research in the Sociology of Education* (forthcoming).
- Yao, Lixia, James Evans, Andrey Rzhetsky. 2015. "A health research opportunity index reveals the (ir)rational allocation of research resources to health needs". *Nature Biotechnology* (forthcoming).
- Foster, Jacob, Andrey Rzhetsky, James Evans. 2015. "Tradition and Innovation in Scientists' Research Strategies". *American Sociological Review* (forthcoming, October).
- Shi, Feng, Jacob Foster, & James Evans. 2015. "Weaving the Fabric of Science: Dynamic network models of science's unfolding structure." *Social Networks* 43:73-85. doi:10.1016/j.socnet.2015.02.006.
- Allesina, Stefano, Cody Weinberger, James Evans. 2015. "Ten Simple (Empirical) Rules for Writing Science." *PLOS Computational Biology*, April 30. DOI: 10.1371/journal.pcbi.1004205.
- Blair, David R., Kanix Wang, Svetlozar Nestorov, James A. Evans, Andrey Rzhetsky. 2014. "Quantifying the Impact and Extent of Undocumented Biomedical Synonymy" *PLOS Computational Biology*. Sept. 25.
- Gerow, Aaron, James A. Evans. 2014. "The Modular Community Structure of Linguistic Predication Networks." *Proceedings of TextGraphs-9: the workshop on Graph-based Methods for Natural Language Processing*, pages 48–55, October 29, 2014, Doha, Qatar. Association for Computational Linguistics.
- Wang, Jialei, Nathan Srebro, James A. Evans. 2014. "Active collaborative permutation learning" *KDD '14 Proceedings of the 20th ACM SIGKDD international conference on Knowledge discovery and data mining*, pp. 502-511. <http://dx.doi.org/10.1145/2623330.2623730>.
- West, Jevon, Jacob Foster, Martin Rosvall, Daril Villena, James Evans, Carl Bergstrom. 2014. "Finding Cultural Holes: How Structure and Culture Diverge in Networks of Scholarly Communication" *Sociological Science*. June 9, DOI: 10.15195/v1.a15.
- Macal, Charles M., Michael J. North, Nicholson Collier, Vanja M. Dukic, Duane T. Wegener, Michael Z. David, Robert S. Daum, Philip Schumm, James A. Evans, Jocelyn R. Wilder, Loren G. Miller, Samantha J. Eels, Diane S. Lauderdale. 2014. "Modeling the transmission of Community-Associated Methicillin-Resistant *Staphylococcus aureus*: a dynamic agent-based simulation." *Journal of Translational Medicine* 12:124. DOI:10.1186/1479-5876-12-124.
- Evans, James, Jae-Mahn Shim, John P. Ioannidis. 2014. "Attention to Local Health Burden and the Global Disparity of Health Research" *PLOS ONE*. April 1, DOI: 10.1371/journal.pone.0090147.
- Evans, James. 2013. "Future Science." *Science* 342(6154): 44-45.

- Evans, James. 2013. "Communication and the Evolution of Cognition." In: Linda Caporael, James Griesemer and William Wimsatt, eds., *Scaffolding in Evolution, Cognition and Culture*, MIT Press.
- Rzhetsky, Andrey and James Evans. 2011. "War of Ontology Worlds: Mathematics, Computer Code, or Esperanto?" *PLoS Computational Biology* 7(9): e1002191. doi:10.1371/journal.pcbi.1002191.
- Divoli, Anna, Eneida Mendonça, James Evans, Andrey Rzhetsky. 2011. "Conflicting biomedical assumptions for mathematical modeling: The case of cancer metastasis" *PLoS Computational Biology* 7(10): e1002132. doi:10.1371/journal.pcbi.1002132.
- Evans, James and Jacob Foster. 2011 "Metaknowledge." *Science* 331(6018):721-725.
- Evans, James and Andrey Rzhetsky. 2011. "Advancing Science through Mining Libraries, Ontologies and Communities." *Journal of Biological Chemistry* 286(27):23659-23666.
- Yao, Lixia, Anna Divoli, Ilya Mayzus, James A. Evans, and Andrey Rzhetsky. 2010. "Benchmarking Ontologies: Bigger or Better?" *PLoS Computational Biology* 7(1): e1001055. doi:10.1371/journal.pcbi.1001055.
- Evans, James. 2010. "Industry Collaboration, Scientific Sharing and the Dissemination of Knowledge." *Social Studies of Science* 40(5): 757-791.
- Evans, James. 2010. "Industry Induces Academic Science to Know Less About More." *American Journal of Sociology* 116(2): 389-452.
- Evans, James and Andrey Rzhetsky. 2010. "Machine Science." *Science* 329(5990): 399.
2010. "Response to 'Machine Science: The Human Side', 'Machine Science: Truly Machine-Aided Science', and 'Machine Science: What's Missing?'" *Science* 330(6002): 317-319.
- Evans, James. 2010. "Nonprofit Research Institutes: From Companies Without Products To Universities Without Students." Pp. 151-82 in Lis Clemens and Doug Guthrie, eds., *Politics and Partnerships: The Role of Voluntary Associations in America's Political Past and Present*. University of Chicago Press.
2011. Awarded Outstanding Book in Nonprofit & Voluntary Action Research by the Association for Research on Nonprofit Organizations and Voluntary Action.
- Yao, Lixia, James A. Evans and Andrey Rzhetsky. 2009. "Novel Opportunities for computational biology and sociology in drug discovery." *Trends in Biotechnology* 26(12): 557-562.
- Evans, James and Jacob Reimer. 2009. "Open Access and Global Participation in Science," *Science* 323: 1025. [Requested to be reprinted in *Biodiversity*.]
2009. "Response to 'Open Access: Increased Citations Not Gauranteed,' 'Open Access: The Self-Selection Effect,' and 'Open Access: The Sooner the Better,'" *Science* 325: 266-267.

- Evans, James. 2008. "Electronic Publication and the Narrowing of Science and Scholarship," *Science* 321: 395-399.
2008. "Response to 'Literature Citations in the Internet Era,' 'Narrower Focus May Be More Efficient,' 'To Each Citation, a Purpose,' and 'A Cycle of Tradition and Innovation,'" *Science* 323: 37-38.
2010. Awarded the best paper award by the Communication and Information Technologies Section of the American Sociological Association.
- Evans, James. 2006. "Start-ups in Science: Entrepreneurs, New Ventures, and Novelty Outside Business" in Martin Ruef and Michael Lounsbury, eds., *Research in the Sociology of Organizations* 2006.
- Evans, James, Stephen R. Barley and Gideon Kunda. 2004. "Beach Time, Bridge Time, and Billable Hours: The Temporal Structure of Technical Contracting," *Administrative Science Quarterly* 49: 1-38.
- Kunda, Gideon, Stephen R. Barley and James Evans. 2002. "Why Do Contractors Contract? The Experience of Highly Skilled Technical Professionals in a Contingent Labor Market," *Industrial and Labor Relations Review* 55: 234-261.

WORKING PAPERS (*CURRENTLY UNDER REVIEW)

- Foster, Jacob and James Evans. Forthcoming. "Promiscuous Inventions."*
- Evans, James and Peter McMahan. 2015. "Ambiguity and Intellectual Engagement."*
- Evans, James and Misha Teplitskiy. 2015. "How Firm is Sociological Knowledge? Reanalysis of GSS findings with alternative models and out-of-sample data, 1972-2012."*
- Rzhetsky, Andrey, Jacob Foster, Ian Foster and James Evans. 2015. "Choosing the Next Experiment: Gains and Losses for Science and Society"*
- Evans, James and Jacob Foster. 2015. "Measuring Novelty by Simulating Discovery."
- Evans, James and Pete Aceves. 2015. "Computational Content Analysis."
- Yongren Shi, Feng Shi, Fedor Dokshin, Michael Macy & James Evans. 2015. "Can We Agree on Science? Measuring the Ideological Alignment of Science with Book Co-purchase Data."

REPORTS

- Frodeman, Robert, J. Britt Holbrook, et al. 2012 "[The Promise and Perils of Transformative Research](#)." Summary report of workshop 'Transformative Research: Ethical and Societal Implications' held in Arlington, VA March 8 & 9. Exclusively contributed "Stable Scientific Strategies and the Unexamined Frontier of Knowledge."

Lane, Julia et al. 2011 "[Changing the Conduct of Science in the Information Age.](#)"
Summary Report of workshop, organized by the Office of International Science
and Engineering of the National Science Foundation held in Arlington, VA
November 12, 2010. Exclusively contributed "Identification and the Complex
System of Research."

PRESENTATIONS

- 2015 "Faceting U.S. Science Funding" with Dashun Wang @ National Science Foundation, Arlington, Virginia (July 10, 2015).
- 2015 "Discovering the Extent of Estimable Prediction (DEEP) @ Basic Research Innovation and Collaboration Center (BRICC) and AFOSR, Arlington, Virginia (July 8, 2015).
- 2015 "Inside the Discovery Cloud: Deep Text Mining for Cancer & Disease" with Ishanu Chattopadhyay @ Computation Institute (May, 2015).
- 2014-15 "How Science Thinks" @ Booth School of Business, Decision Sciences Workshop (May, 15); Brigham Young University (March, 15); Santa Fe Institute (April, 15); Air Force Office of Scientific Research (AFOSR) Research Analytics Seminar (Sept. 10, 14); American Sociological Association (Aug. 18, 14); Keynote for Associated Publishers of Europe, Berlin (Jan. 27, 14).
- 2012-15 "Ambiguity and Intellectual Engagement" talk @ Cornell Sociology (Feb. 27, 2015); Columbia Sociology (Oct. 8, 2014); Stanford Conference on Computational Social Science (Aug. 15, 2014); the Booth School of Business, Organizations and Markets workshop (May 11, 2014); History and Philosophy of Science workshop, University of Chicago's (May, 2013); Princeton's Center for the Study of Social Organization (Dec., 2012); Chicago Colloquium on Digital Humanities and Computer Science (Nov., 2012); the American Sociological Association meeting in Denver (Aug, 2012).
- 2014 "How Cities Think" talk @ workshop on "Urban Science and Big Data" at the Radcliffe Center for Advanced Studies, Harvard University, Cambridge, MA (Dec. 15).
- 2014 "Thinking Big with Big Data" keynote @ the launch of Tencent Holding Company's (We-Chat, QQ) Internet & Society Institute, Beijing, China (July 25).
- 2014 "How much Serendipity is there Science" talk and panelist @ "Science and Serendipity: Happenstance and Other Factors Underlying Accidental Discoveries" Joint Speaker Event for University of Chicago Faculty and Argonne and Fermilab Scientists, Researchers and Engineers (May 21).

- 2014 “Text as Data (About Thinking, Knowing, Feeling)” @ University of Chicago Technology Day Conference (April 16).
- 2014 “Discourse as Neural Network” @ Alexander von Humboldt Institute for Internet and Society (Jan. 28).
- 2014 “Expression and the reception of ideas” Editorial Studies, Free University of Berlin (Jan. 27).
- 2014 “How Science (as a System) Thinks” Computation Institute Speaker Series: Inside The Discovery Cloud—Culture and Society (Jan. 15); Northwestern Institute for Complex Systems—NICO (Feb. 26); Stanford’s Work, Technology and Organization (WTO) seminar (Apr. 13).
- 2012-14 “Choosing the Next Experiment: Tradition, Innovation and Efficiency in the Selection of Scientific Ideas” @ American Sociological Association (Aug. 18, 2014); IBM Services Research Symposium (Oct. 22, 2013); Rational Choice workshop, University of Chicago (Apr. 2013); Keynote, Innovation & Digital Scholarship Lecture Series, Oxford Internet Institute (Mar., 2013); Berkeley Innovation Seminar, UC Berkeley (Jan. 2013); Center for the Study of Social Organization, Princeton University (Dec, 2012).
- 2013 “Knowledge Lab” Computation Institute & CRI Student Engagement Lightning Talk (Nov. 1).
- 2013 “Why Big Data needs Science Studies more than Science Studies needs Big Data” @ the Society for the Social Studies of Science (4S), annual meeting, San Diego (Oct. 11).
- 2013 “Choosing the Next Experiment: Collective Cognition and the Selection of Scientific Ideas” @ John von Neumann Public Lecture in Complexity and Computation, Wisconsin Institutes for Discovery (Oct. 9).
- 2012 “Choosing the Next Experiment: Measuring Tradition, Novelty and Global (In)efficiency in Scientific Investigations” (poster) @ the National Academy of Sciences sponsored “SciSIP Principal Investigator’s Conference” in Washington, D.C. (Sep).
- 2012 “Tradition, Innovation and Efficiency in Scientists’ Research Strategies” @ “Intellectual and Institutional Innovation in Science” conference, organized by Thomas Heinz and Robert Münch of the University of Bamberg, and the German Federal Ministry of Education and Research; Bundesministerium für Bildung und Forschung (BMBF), Program: New Governance of Science in Berlin (Sep).
- 2012 “Why the social sciences (often) don’t use big data” @ the Department of Energy sponsored Institute for Computing in Science (ICiS) workshop, “Big Data and Long Tails: Addressing the Cyber-Infrastructure Challenges for Research on a Budget” in Park City (Aug).

- 2012 Speaker/panelist for AAUP (American Association of University Presses) panel on “Policy Wars: University Presses in the Crossfire,” organized by Alison Muddit, director of the University of California Press (Jun).
- 2012 “Choosing the Next Experiment: Gains and losses for science and society” @ NetSci Conference, Science of Science and Innovation Satellite Conference, Northwestern University (Jun).
- 2012 “University opportunities for innovation and the knowledge economy” @ Lamplighters, a conference for senior university administrators. Also co-organizing speaker/panelist for related “Innovation panel” at the same conference (Jun).
- 2012 “Stable Scientific Strategies and the Unexamined Frontier of Knowledge” @ National Science Foundation workshop on The Promise and Perils of Transformative Research, organized by Robert Frodeman and J. Britt Holbrook (Mar).
- 2011 “Novelty, Metaknowledge and Models of Discovery” @ the Indiana University speaker series on Networks and Complex Systems (Nov).
- 2011 “Stability and Conformity in Scientists’ Research Strategies” @ the Innovations, Organizations and Society Conference joint between University of Chicago-Northwestern (Oct).
- 2011 “The Social Life of Ideas” @ SciFoo Camp, Google (Aug).
- 2011 “Local Attention to Disease and the Global Disparity of Health Knowledge” @ the American Sociological Association in Las Vegas, Nevada (Aug).
- 2011 “The Complex Network of Skill and Ideas” @ workshop on *Measuring the Impacts of Federal Investments in Research*, sponsored by the Board on Science, Technology, and Public Policy of the National Research Council and the Committee on Science, Engineering, and Public Policy of the National Academy of Sciences, National Academy of Engineering, and Institute of Medicine (Apr).
- 2011 “Creative Confidence in Building a Portfolio of Projects” @ the Social Evidence and Theory Workshop, University of Chicago (Apr).
- 2011 “The Effect of Technology on Scholarship” @ the Disciplines and Technologies workshop at the Franke Institute (Apr).
- 2010 “Science’s Taste for Open Access” @ American Sociological Association (Aug).
- 2010 “Using the population of knowledge claims to identify (and mine) the limits of knowledge” @ the inaugural Department of Energy Institute for Computing in Science (ICiS) workshop, “Integrating, Representing, and Reasoning over Human Knowledge: A Computational Grand Challenge for the 21st Century”, SnowBird, Utah (Aug).

- 2010 “The Google Effect on Science and Scholarship” @ the Department of Physics Colloquium, University of Chicago.
- 2009 “The Google Effect on Knowledge & Culture: By Broadening Individual Reach the Internet Narrows Global Understanding” @ American Sociological Association (Aug ‘09), Innovations, Organizations and Society Conference joint between University of Chicago-Northwestern (Oct ‘09), Society for the Social Study of Science (Oct ‘09), Theory and Evidence workshop at the University of Chicago (Nov ‘09), Loyola Sociology Department (Mar ‘10), Columbia Sociology Department (Apr ‘10).
- 2009 “Describing NSF Research Centers: A metaphysical approach” @ Centers, Universities, and the Scientific Innovation Ecology: An NSF Workshop (Apr ‘09).
- 2008-09 “Institutions and Science: the Influence of Internet and Industry” @ the Society of Science Society Presidents, Washington, D.C. (Dec ‘08), University of Michigan Strategy Seminar (Mar ‘09), University of Chicago Harper Lecture, Chicago (Oct ‘09).
- 2008 “ePublication and Attention in Science and Scholarship” @ the Workshop on Economic Perspectives on Scholarly Communication in a Digital Age, University of Michigan (Sep. ‘08).
- 2007-08 “Industry Collaboration and Secrecy in Academic Science” @ the Emergence of Organization Conference at the University of Chicago (Nov ‘07), Harvard University Organizational Behavior seminar (Dec ‘07), Organizations & Markets workshop at the University of Chicago (Jan ‘08), Brigham Young University Sociology Seminar (Mar ‘08), and the American Sociological Association (Aug ‘08).
- 2006-07 “Industry Collaboration and Theory in Academic Science” @ the Organizational Behavior Workshops in the business schools at Columbia University (Apr ‘07) and University of Illinois at Urbana-Champaign (Apr ‘06), Northwestern Institute on Complex Systems (Mar ‘07), and the Science, Technology, Society and the State Workshop at the University of Chicago (Jan ‘06).
- 2006 “Knowledge-Bases and the Sociology of Science” @ the Computation Institute at the University of Chicago (Nov).
- 2005 “Industry Collaboration and the Ethos of Academic Science: Novelty and Persistence in *Arabidopsis thaliana* research, 1974-2002” @ the Harvard-MIT Economic Sociology Workshop (Sep); the Entrepreneurship Group at Harvard Business School (Sep); the International Conference for *Arabidopsis* Research meeting at the University of Wisconsin (Jun); the Organizations and Markets Workshop at the University of Chicago Business School (Apr); and the History, Philosophy and Sociology of Science Workshop at the University of Chicago (Apr).

- 2005 “Nonprofit Research Institutes: From companies without products to universities without students” @ the SSRC Capstone Conference on Philanthropy and the Nonprofit Sector in Florence (Mar).
- 2004 “Public / Private Collaboration in *Arabidopsis thaliana* research, 1974-2002” @ the Carnegie Institute of Washington’s Division of Plant Biology, Stanford, California (Jun).
- 2003 “Sharing the Harvest? The Uncertain Fruits of Public / Private Collaboration in Plant Biotechnology” @ Cornell University’s School of Industrial and Labor Relations (Nov), the University of Chicago’s department of sociology (Nov), Georgia Institute of Technology’s School of History, Technology and Society (Oct), and the University of Iowa department of sociology (Oct).
- 2002 “Harvesting Basic Bioscience: Firm Strategy Within the Organizational Ecology of Plant Biology and Biotechnology” @ the Academy of Management session on Technology and Information Management (Aug).
- 2002 “The Temporal Dynamics of Work: The Perception of Time among High Skilled Contingent Workers” @ the Academy of Management section on Organization and Management Theory (Aug).
- 2002 “Structures of Science and Trajectories of Technology: Organizations, Scientists and Intellectual Property Shaping the Frontiers of Plant Biology and Biotechnology” (poster) @ American Sociological Association (Aug).
- 2002 “Sharing the Harvest: The Uncertain Harvest of Private/Public Collaboration in Plant Biotechnology” @ SSRC Conference for the Corporation as a Social Institution and the SSRC Dissertation Workshop for the Program on Philanthropy and the Nonprofit Sector (Nov).
- 2001 “The Market Community: The Migration of Relationships and Transformation of Community in the Temporary IT Labor Market” @ SCANCOR seminar, Stanford University (Oct).
- 2001 “By Motivation or Situation? Career Choices, Information Flows, and the Formation of Collective Identity in Venture Capital” @ the Sociology of Culture workshop at Stanford University (Mar) and in 2002 at the American Sociological Association session on Organizations and Occupations (Aug).
- 2000 “Intimate Valuation and the Experience of Contract Labor Markets” @ the Institutions, Culture, Conflict, and Change Conference, Kellogg School of Management, Northwestern University (Nov).
- 2000 “The Nature and Experience of Market-Spanning Networks in The Accelerated Contract Labor Market” @ the American Sociological Association section on Economic Sociology (Aug).
- 2000 “Duality in Action: A Longitudinal Study of Relationships and Attitudes” (with Kathleen Valley and Tracy Thompson) @ the Academy of Management session on Organizational Behavior (Aug).

HONORS, FELLOWSHIPS AND AWARDS

- 2015 Facebook's Academic Program (\$25,000 gift)
- 2014 IBM Data Fellow (\$70,000 gift)
- 2012-13 Senior Fellow, Computation Institute, University of Chicago.
- 2010 Best Paper award (best paper published in the prior two years) from the American Sociological Association's section on Communication and Information Technology (CITASA) for "Electronic Publication and the Narrowing of Science and Scholarship."
- 2008 Citation from the Council of Science Society Presidents for "Improving our Understanding of the Role of the Internet in Scientific Communications."
- 2006-12 Fellow, Computation Institute, University of Chicago.
- 2002-04 Social Science Research Council (SSRC) Fellow, Program on the Corporation as a Social Institution.
- 2002-05 SSRC Fellow, Program on Philanthropy and the Nonprofit Sector.
- 2002-03 MacArthur Scholar and Fellow at the Stanford Center for International Security and Cooperation.
- 1998-02 Jacob K. Javits Fellow (4-year Department of Education Fellowship).
- 1997-98 Stanford Graduate Fellow in the Department of Sociology.
- 1994 Valedictorian, Brigham Young University: College of Social Sciences (and Anthropology Department); University Honors; Deans List.
- 1994— Golden Key and Phi Kappa Phi Honor Societies.

GRANTS

- 2015-19 Co-PI (with Alberto Cambrosio, PI) "Oncology's metaknowledge networks: an investigation of the collective dynamics of bio-clinical innovation"; Canadian Institutes of Health Research (CIHR) (\$640,000).
- 2015-19 Co-PI (with Boaz Keysar, PI) "The Impact of Foreign Languages on Problem Solving: An Interdisciplinary Study of Language and Society"; IBSS (Interdisciplinary Behavioral and Social Sciences Research) grant from NSF (\$900,000).
- 2014-17 Co-Investigator (with Jason Owen-Smith, Julia Lane and Bruce Weinberg) "The Institute for Research on Innovation & Science (IRIS)" from the Sloan (\$1,200,000) and Kauffman (\$1,497,751) foundations.
- 2014-17 Senior Personnel on NIH BEST (Broadening Experience in Scientific Training), "myCHOICE (CHicago Options-In-Careers Empowerment)"

- 2014-16 Principal Investigator (with Julia Lane and Jordan Boyd-Graber) on NSF NCSES- (National Center for Science and Engineering Statistics) grant #1422902, “Collaborative Research: Scaling Insight into Science: Assessing the value and effectiveness of machine assisted classification within a statistical system” (\$500,000).
- 2014-17 Co-Investigator on DARPA grant #14145043, “Big Machine Science” (\$4,500,000).
- 2013-16 Principal Investigator on John Templeton Foundation “Metaknowledge Network” (\$5,300,000).
- 2013-16 Principal Investigator on NSF SciSIP (Science of Science and Innovation Policy) grant #1158803, “Tracing Influence & Predicting Impact in Science” (\$498,118).
- 2012-14 Co-Principal investigator (with Adrian Johns and James Chandler) on Mellon Foundation Grant “Disciplines and Technologies” (\$227,000).
- 2011 Organizer (with Ian Foster, Andrey Rzhetsky, Hod Lipson) of the Department of Energy’s ICiS workshop: “Accelerating Discovery: Human Computer Symbiosis 50 Years On”, Park City, Utah (\$100,000).
- 2010-12 Principal Investigator on NSF supplement to #0915730 (see below) for “StarMetrics: Evaluating Scientists and Science” (\$80,000).
- 2010 Organizer (with Ian Foster and Andrey Rzhetsky) of the Department of Energy’s inaugural Institute for Computing in Science (ICiS) workshop: “Integrating, Representing, and Reasoning over Human Knowledge: A Computational Grand Challenge for the 21st Century”, SnowBird, Utah (\$100,000).
- 2009-12 Principal Investigator on NSF SciSIP (Science of Science and Innovation Policy) grant #0915730, “Assessing and Predicting Scientific Progress through Computational Language Understanding” (\$398,000).
- 2009-10 Program Leader on NIH supplementary award to #031672 (Andrey Rzhetsky, PI) “Computer system for functional annotation of genomic data” (\$134,998)
- 2009-11 Principal Investigator (with Andrey Rzhetsky and Ian Foster) on NIH EUREKA (Exceptional, Unconventional Research Enabling Knowledge Acceleration) grant #010132, “Large-Scale Discovery of Scientific Hypotheses; Computation Over Expert Opinions” (\$1,215,744).
- 2009-14 Co-Investigator (Diane Lauderdale, PI) on NIH Models for Infectious Disease Agent Study (MIDAS) Center #087729, “Modeling MRSA in the community” for the modeling of MRSA outbreaks and associated interventions in the community (\$2,400,000).
- 2008-11 Senior Personnel (Michael Papka, PI) on NSF Cyberinfrastructure grant #0821678, “Petascale Active Data Store” (\$1,500,000).

- 2008-09 Research Opportunity Seed grant. Vice President's Office for Research, The University of Chicago. (\$10,000).
- 2008-09 Principal Investigator on Health and health policy research for disadvantaged populations seed grant, Center for Health Administration, The University of Chicago, entitled "Unequal Knowledge: Disparities between Burden of Disease and Bio-Medical Understanding." (\$20,000).
- 2005-07 Research Opportunity Seed grant. Vice President's Office for Research, The University of Chicago. (\$9,680).
- 2005-06 Instructional Improvement Grant. Center for Teaching and Learning, The University of Chicago. (\$1,000).
- 2003-06 Co-Principal Investigator to NSF grant #0242971, "Sharing the Harvest: The Uncertain Fruits of Private/Public Collaboration in Plant Biotechnology" (\$169,000), March 1, 2003 through February 28, 2006. (Walter Powell, Principal Investigator.)
- 2001 Stanford Graduate Research Opportunities Grant. (\$5,000).

RESEARCH POSITIONS

- 2005— Research Associate. Ogburn-Stauffer Center for the Study of Social Organization, National Opinion Research Center (NORC).
- 2003-04 Researcher with Walter Powell, Stanford University. Worked on dissertation research and comparisons of plant biotechnology with human biotechnology.
- 1998-01 Research Assistant to Stephen Barley, Stanford University. Conducted interviews of technical contractors and participant observation in relevant work and community settings; coded and analyzed interviews and field notes.
- 1998-99 Research Assistant to Mark Granovetter, Stanford University. Developed relational database from archival data to explore social networks and career mobility in the early electricity industry.
- 1995-97 Research Associate to Kathleen Valley, Harvard Business School. Performed social psychology experiments and analyzed experimental data, social networks, and interviews.
- 1995-97 Research Associate to George Wu, Harvard Business School. Gathered archival real estate data and analyzed it to examine seller behavior; Analyzed data on the structure of joint ventures.
- 1995-96 Research Associate to V.G. Narayanan, Harvard Business School. Wrote course notes on human motivation in markets and firms; Wrote case studies on accounting at Intel.

1994 Research Assistant, Dwight Israelsen, Economics Department, Brigham Young University. Gathered and analyzed archival data on frontier economy and demography.

TEACHING EXPERIENCE

- 2013 Co-instructor for “Do Ideas Evolve?” with Jacob Foster, sponsored by the Mellon Foundation’s Center for Disciplinary Innovation at the Franke Institute of Humanities.
- 2012 Instructor for “Internet and Society,” technical, policy, cultural and social issues associated with the rise of the Internet.
- 2010-14 Instructor for “Science, Culture & Society III,” the history of science in society from the founding of the Royal Society to the present.
- 2009 Instructor for short-course on “Social and Semantic Networks” at the University of Trento Summer School on *Networks and Innovation*.
- 2007-11 Instructor for “Social Structure and Change,” an introduction to the empirical content of sociology for undergraduate sociology majors.
- 2005-11 Instructor for “Content Analysis” for graduate students at the University of Chicago.
- 2005-11 Instructor for “The Sociology of Science” and “Introduction to Science Studies” for graduates and undergraduates at the University of Chicago.
- 2004-08 Instructor for “Self, Culture and Society,” core undergraduate course on classics of political economy at the University of Chicago.
- 2000,05 Instructor for “Work, Organization, and Society” at Stanford University and the University of Chicago.
- 1999 Teaching Assistant to Mark Granovetter, “Economic Sociology,” Stanford University. Taught section and graded.
- 1999 Teaching Assistant to W. Richard Scott, “Organizations and Public Policy,” Stanford University. Taught section, gave invited lecture, and graded.
- 1996-97 Teaching Assistant to Kathleen Valley, “Negotiations,” Harvard Business School. Graded and administered experiments.
- 1993-94 Teaching Assistant to F. Kent Nielsen, “History and Philosophy of Science” and “Philosophy 101,” Brigham Young University. Gave invited lectures and graded.
- 1992-93 Co-founder, Executive Director and Faculty Member, Utah High School for the Performing and Fine Arts, Orem, Utah. Created academic program and curricula; taught classes in social sciences, established school’s financial policies.

STUDENTS

Post-doctoral:

Jacob Gates Foster (2014), UCLA.

Doctoral:

Misha Teplitskiy, Peter McMahan, Jae-Mahn Shim (2013), City University of Seoul; Zack Kertcher (2009), Notre Dame University; Frank Smith (2006), University of Melbourne.

Masters:

Patrick van Kessel (2012), Kira Wilpone-Jordan (2012), Rachel Pierson (2012), Nolan Philips (2010), Allyson Grennille (2008), Kathryn McLellin (2007), Yven Lillian Destin (2007), Emily Mannix Wanderer (2006).

Undergraduates:

Gaelle Sharma (2014; HiPSS), Daniel Benner (2014; HiPSS), Anna Stapleton (2014), Bradford Rogers (2014), Emma Cervantes (2014), Hans Glick (2014), Edgar Quintana (2014), Isaac Dalke (2013), Mahmoud Bahrani (2012), Sally Lanar (2011), Ariel Weiser (2010), Basil Katz (2006; History).

COMMUNITY SERVICE

- 2013— Undergraduate Program Chair, University of Chicago Department of Sociology
- 2012-13 Webpage Committee member, University of Chicago Department of Sociology
- 2012 Chair, committee for NetSci Satellite Symposium on Networks: the Science of Science and Innovation
- 2011-13 Research Computing Faculty Oversight Committee, University of Chicago
- 2011 Chair selection committee, Committee on Conceptual and Historical Studies of Science (chair)
- 2010 Faculty Search Committee, University of Chicago Department of Sociology
- 2010-12 Bamboo Faculty Advisory Board, Bamboo Project at the University of Chicago (funded by the Mellon Foundation).
- 2010-12 Webpage Committee Chair, University of Chicago Department of Sociology
- 2010 Acting undergraduate program chair, Department of Sociology, University of Chicago.
- 2007— Assisting Chicago Biomedical Consortium (CBC) evaluate its \$300 million dollar initiative supporting collaborative biomedical research between the University of Chicago, Northwestern, and University of Chicago in Illinois.

- 2007 Richard Saller Dissertation Prize Selection Committee, University of Chicago Division of Social Sciences.
- 2006— Faculty Advisory Committee to UChicagoTech, University of Chicago's Office of Technology & Intellectual Property.
- 2006-08 College Council, University of Chicago.
- 2006-08 Webpage Committee, University of Chicago Department of Sociology.
- 2005-08 Associate Editor, *American Journal of Sociology*.
- 2006,11 Chair Selection Committee, University of Chicago Department of Sociology.
- 2005 Harper and Mellon Fellow Selection Committee, University of Chicago Division of Social Sciences.
- 2005 Small Grants Selection Committee, University of Chicago Division of Social Sciences.
- 2004-05 Faculty Search Committee Member, University of Chicago Department of Sociology.
- 2002-03 Faculty Search Committee Member, Stanford Department of Sociology.
- 2001-02 Department Seminar Committee Co-Chair, Stanford Department of Sociology.
- 2000-01 Co-President of the Associated Sociology Graduate Students (ASGS) at Stanford University (department student organization).
- 1999-00 Graduate Admissions Committee Member, Stanford Department of Sociology.

PROFESSIONAL MEMBERSHIPS

- 2006— Member, American Association for the Advancement of Science (AAA)
- 2006— Member, Society for the Social Study of Science (4S)
- 1997— Member, American Sociological Association: Science, Knowledge and Technology; Mathematical Sociology; Communication & Information Technology; Economic Sociology; Organizations, Occupations and Work Section memberships.
- 1996-04 Member, Academy of Management Association: Organization and Management Theory and Organizational Behavior Section memberships.

RESEARCH AND TEACHING INTERESTS

Sociology of knowledge; science of science; innovation; science, technology and society; science and technology policy; history and philosophy of science; computational social science; complex systems; sociology of health/medicine; organizations; economic

sociology; sociology of work; inequality; qualitative and quantitative methods—fieldwork, social networks, content analysis, databases, natural language processing, machine learning.

PERSONAL INFORMATION

Age 45, married (Jeannie Elizabeth Young Evans).

Hobbies: 4, ages 19, 17, 13 and 7.