

# JAMES ALLEN EVANS

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## PROFESSIONAL EXPERIENCE

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- 2004— Assistant Professor. Department of Sociology, Committee on Conceptual, Historical and Social 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

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- 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 AND WORK UNDER REVIEW

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- Yao, Lixia, Anna Divoli, Ilya Mayzus, James A. Evans, and Andrey Rzhetsky. 2010. "Benchmarking Ontologies: Bigger or Better?" *PLoS Computational Biology* (forthcoming).
- 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.
- 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. 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 Journals 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.
- Work under review:
- Evans, James and Andrey Rzhetsky. "Advancing Science through Mining Libraries, Ontologies and Communities." Under second review at *the Journal of Biological Chemistry*.
- Evans, James. "The Influence of the Internet on Knowledge and Culture." Under second review at *the American Sociological Review*.

Evans, James. "Scientists Taste for Open Access." Under review at *Scientometrics*.

#### **WORK IN PROGRESS**

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Evans, James and Jacob Foster. "Metaknowledge." Essay solicited by *Science*.

Foster, Jacob, James Evans, and Andrey Rzhetsky. "Innovation in Science."

Evans, James. "The Lifecourse of Theory."

Evans, James and Walter Powell. "Industry Collaboration and the Evolution of Academic Science."

Evans, James. "The Experience of Social and Human Capital."

Evans, James. "The Formation of Occupational Cultures."

Evans, James and Andrey Rzhetsky. "Models for Content Analysis."

Evans, James and Andrey Rzhetsky. "A Theory of Gene Names."

Evans, James and Andrey Rzhetsky. "The Social Structure of Scientific Statements."

Evans, James and Andrey Rzhetsky. "Scientific Ideas, Language and the Social."

#### **PRESENTATIONS**

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- 2010 "Science's Taste for Open Access." Presented at American Sociological Association (Aug '10).
- 2010 "Using the population of knowledge claims to identify (and mine) the limits of knowledge." Presented at 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.
- 2010 "The Google Effect on Science and Scholarship." Presented at the Department of Physics Colloquium, University of Chicago.
- 2009 "The Google Effect on Knowledge & Culture: By Broadening Individual Reach the Internet Narrows Global Understanding." Presented at 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." Presented at Centers, Universities, and the Scientific Innovation Ecology: An NSF Workshop (Apr '09).

- 2008-09 “Institutions and Science: the Influence of Internet and Industry.” Presented at 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.” Presented at 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.” Presented at 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.” Presented at 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.” Presented at 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.” Presented at 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.” Presented at the SSRC Capstone Conference on Philanthropy and the Nonprofit Sector in Florence (Mar).
- 2004 “Public / Private Collaboration in *Arabidopsis thaliana* research, 1974-2002.” Presented at 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.” Presented at 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.” Presented at 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,” (with Gideon Kunda and Stephen Barley). Presented at 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 Presentation at the American Sociological Association (Aug).
- 2002 “Sharing the Harvest: The Uncertain Harvest of Private/Public Collaboration in Plant Biotechnology.” Presented at 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.” Presented at 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.” Presented at 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.” Presented at 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). Presented at the Academy of Management session on Organizational Behavior (Aug).

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#### HONORS, FELLOWSHIPS AND AWARDS

- 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— 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

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- 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**

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- 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.

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**TEACHING EXPERIENCE**

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- 2010- Instructor for “Science, Culture & Society,” the history of science in society from the founding of the Royal Society to the present.
- 2007-10 Instructor for “Social Structure and Change,” an introduction to the empirical content of sociology for undergraduate sociology majors.
- 2005-10 Instructor for “Content Analysis” for graduate students at the University of Chicago.
- 2005-10 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.

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**COMMUNITY SERVICE**

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- 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*.
- 2005-06 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**

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- 2006— Member, American Association for the Advancement of Science
- 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— Member, Academy of Management Association: Organization and Management Theory and Organizational Behavior Section memberships.

#### **RESEARCH AND TEACHING INTERESTS**

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Sociology of knowledge; science, technology and society; science and technology policy; organizations; economic sociology; sociology of work; sociology of health/medicine;

inequality; qualitative and quantitative methods—fieldwork, social networks, content analysis, databases, data mining and clustering, statistical modeling.

**PERSONAL INFORMATION**

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Age 40, married.

Hobbies: 4, ages 14, 12, 8 and 2.