

JASON OWEN-SMITH

Professor
University of Michigan
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CONTACT

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EDUCATION

2000 Ph.D. Sociology, University of Arizona
1997 M.A. Sociology, University of Arizona
1995 B.A. Sociology & Philosophy, New College of Florida

EMPLOYMENT

2020- Executive Director for Research Analytics, University of Michigan Office of Research (UMOR)
2015- Executive Director, Institute for Research on Innovation & Science (IRIS)
2014- Professor, Sociology, University of Michigan
2014- Professor (By Courtesy), Ford School of Public Policy, University of Michigan
2014- Research Professor, Survey Research Center, Institute for Social Research, University of Michigan
2010-2018 Director, Barger Leadership Institute, University of Michigan
2014-2016 Professor, Organizational Studies, University of Michigan
2010-2012 Interim Director, Organizational Studies, University of Michigan
2002-2014 Assistant Professor to Professor, Sociology & Organizational Studies, University of Michigan

2000-2002 Postdoctoral Fellow, School of Education, Stanford University

HONORS & AWARDS

- 2014 John Dewey Award, College of Literature, Science and the Arts
Winners of this award demonstrate "scholarly productivity, provision of leadership, and engagement with and care for students."
- 2014 Individual Award for Outstanding Contributions to Undergraduate Education, College of Literature, Science, and the Arts
- 2008 Henry Russel Award, University of Michigan
This award recognizes "exceptional scholarship and conspicuous ability as a teacher"
- 2007 Viviana Zelizer Distinguished Scholarship Award for "Network Dynamics and Field Evolution" from the Economic Sociology Section of the American Sociological Association
- 2006 National Science Foundation Faculty Early Career Development Award
- 2006 Alfred P. Sloan Foundation Industry Studies Fellowship
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RESEARCH INTERESTS

Institutional Change, Network Dynamics, Innovation, High-Technology Industries, University Research Commercialization, Regional Economic Development, Science Policy, Collaboration, Surgical Care

BOOK

- 2018 Owen-Smith, Jason. *Research Universities and the Public Good: Discovery for an Uncertain Future*. Stanford University Press.
- Reviewed by: *Academe, Academy of Management Learning & Education, American Journal of Sociology, Canadian Journal of Higher Education, Contemporary Sociology, Journal of Economic Literature, Planning for Higher Education.*
-

ARTICLES

- 2020 Patrick Kierkegaard, Mira Vale, Spencer Garrison, Brent Hollenbeck, John Hollingsworth & Jason Owen-Smith, "Mechanisms of decision-making in preoperative assessment for older adult prostate cancer patients – a qualitative study." *Journal of Surgical Oncology* 121(3):561-569.

- 2019 Kim, J, Kim, J. & Jason Owen-Smith. “Generating Automated Name Data for Author Name Disambiguation: An Iterative Clustering Method” *Scientometrics* 118(1): 253-280.
- 2018 Russell J Funk, Jason Owen-Smith, Samuel A Kaufman, Brahmajee K Nallamothe, John M Hollingsworth “Association of Informal Clinical Integration of Physicians with Cardiac Surgery Payments.” *JAMA Surgery* 153(5): 446-453.
- 2018 Jordan Everson, Russell J Funk, Samuel R Kaufman, Jason Owen-Smith, Brahmajee K Nallamothe, Francis D Pagani, John M Hollingsworth “Repeated, close physician coronary artery bypass grafting teams associated with greater teamwork” *Health Services Research* 53(2): 1025-1041.
- 2018 HMK Ghomrawi, RJ Funk, ML Parks, J Owen-Smith, JM Hollingsworth “Physician referral patterns and racial disparities in total hip replacement: A network analysis approach” *PLOS One*. e0193014.
- 2017 Funk, RJ, J Owen-Smith, BE Landon, JD Birkmeyer & J Hollingsworth. “Identifying Natural Alignments Between Ambulatory Surgical Care Centers and Local Health Systems: Building Broader Communities of Surgical Care.” *Medical Care*. 55(2): e9-e15.
- 2017 Everson, J, RJ Funk, SR Kauffman, J Owen-Smith, BK Nallamothe, FD Pagani, & J Hollingsworth. “Repeated, Close Physician Coronary Artery Bypass Grafting Teams Associated With Greater Teamwork.” *Health Services Research*. 53(2):1025-1041.
- 2017 Ghomwari, HMK, RJ Funk, ML Parks, J Owen-Smith & J Hollingsworth. “Physician Referral Patterns and Racial Disparities in Total Hip Replacement.” *PLoS One*. 13(2):e0193014.
- 2017 Funk, Russell, Jason Owen-Smith, Samuel Kauffman, Brahmajee Nallamothe, & John Hollingsworth. “Association of Informal Clinical Integration of Physicians with Cardiac Surgery Payments.” *JAMA Surgery* doi:10.1001/jamasurg.2017.5150.
- 2017 Funk, Russell & Jason Owen-Smith. “A Dynamic Network Measure of Technological Change.” *Management Science*. 63(3): 791-817.
- 2016 Hollingsworth, JM, RJ Funk, SA Garrison, J Owen-Smith, SA Kaufman, FD Pagani, and BK Nallamothe. “Association between physician teamwork and health system outcomes after coronary artery bypass grafting.” *Circulation: Cardiovascular Quality and Outcomes*. doi: 10.1161/CIRCOUTCOMES.116.002714.
- 2016 Hollingsworth JM, R Funk, A Lukenbaugh, J Owen-Smith, S. Kauffman and B Nallamothe. “Clinical Integration is Associated with Lower Costs of Care for Patients Undergoing Prostatectomy.” *Journal of Urology* 195(4): E591.
- 2016 Ghomrawi, H, R Funk, J Owen-Smith, J Hollingsworth. “Important differences in the networks of physicians who treat total hip replacement patients in communities with high vs. low proportions of African American residents.” *Osteoarthritis and Cartilage*. DOI: 10.1016/j.joca.2016.01.451

- 2015 Funk, Russell J., Jason Owen-Smith, Bruce E. Landon, John D. Birkmeyer, & John Hollingsworth. "Identifying Natural Alignments Between Ambulatory Surgery Centers and Local Health Systems: Building Broader Communities of Surgical Care." *Medical Care*, doi:10.1097/MLR000000000000118.
- 2015 Zolas, Nikolas, Nathan Goldschlag, Ron Jarmin, Paula Stephan, Jason Owen-Smith, Rebecca F. Rosen, Barbara Mcfadden Allen, Bruce A. Weinberg, & Julia I. Lane. "Wrapping It Up in a Person: Examining Employment and Earnings Outcomes for Ph.D. Recipients." *Science* 350:1367-1371.
- 2015 Lane, Julia, Jason Owen-Smith, Rebecca Rosen, & Bruce Weinberg. "New Linked Data on Research Investments: Scientific Workforce, Productivity, and Public Value." *Research Policy*. 44(9): 1659-1671.
- 2015 Owen-Smith, Jason, Natalie Cotton-Nessler & Helen Buhr. "Network Effects and Organizational Decision-Making: Blended Social Mechanisms and IPO Withdrawal." *Social Networks* 41: 1-17.
- 2015 Hollingsworth, John. Russell J. Funk, Jason Owen-Smith, Bruce Landon & John Birkmeyer. "Differences Between Physician Social Networks For Cardiac Surgery Serving Communities with High Versus Low Proportions of Black Residents" *Medical Care*. 53(2): 160-167.
- 2014 Hollingsworth, John, Russel J. Funk, Jason Owen-Smith, Bruce Landon, Brent Hollenbeck, & John Birkmeyer. "Assessing the Reach of Health Reform to Outpatient Surgery with Social Network Analysis." *Annals of Surgery*. 261(3): 468-472.
- 2014 Kabo, Felichism, Natalie Cotton-Nessler, Yongha Hwang, Margaret Levenstein, & Jason Owen-Smith. "Proximity Effects on the Dynamics and Outcomes of Scientific Collaborations." *Research Policy*. 43(9): 1469-1485.
- 2014 Kabo, Felichism, Yongha Hwang, Margaret Levenstein, & Jason Owen-Smith. "Shared Paths to the Lab: A Sociospatial Network Analysis of Collaboration." *Environment & Behavior*. 47 (1): 57-84
- 2014 Weinberg, Bruce, Jason Owen-Smith, Rebecca F. Rosen, Lou Schwarz, Barbara McFadden-Allen, Roy E. Weiss,& Julia Lane. "Science Funding and Short-Term Economic Activity." *Science*. 344: 41-43.
- 2012 Derouen, Mindy, Jennifer B. McCormick, Jason Owen-Smith, and Christopher Thomas Scott. "The Race is On: Human Embryonic Stem Cell Research Goes Global." *Stem Cell Reviews and Reports*. 8(4): 1043-1047.
- 2011 Scott, Christopher, Thomas, Jennifer B. McCormick, Mindy DeRouen, & Jason Owen-Smith. "Democracy Derived: New Trajectories in Pluripotent Stem Cell Research." *Cell*. 145(6): 820-826.
- 2011 Owen-Smith, Jason. "The Institutionalization of Expertise in University Licensing." *Theory & Society*. 40(1): 63-94.

- 2010 Scott, Christopher Thomas, Jennifer B. McCormick, Mindy DeRouen, & Jason Owen-Smith “Federal Policy and the Use of Pluripotent Stem Cells.” *Nature Methods* 11: 866-867.
- 2010 Buhr, Helena & Jason Owen-Smith. “Networks as Institutional Support: Law Firm and Venture Capitalist Relations and Regional Diversity In High Technology IPOs.” *Research in the Sociology of Work*. 21: 95-126.
- 2009 Scott, Christopher Thomas, Jennifer McCormick, & Jason Owen-Smith. “And Then There Were Two: Use of hESC Lines.” *Nature Biotechnology*. 27(8): 696-697.
- 2009 Bunker Whittington, Kjersten, Jason Owen-Smith, & Walter W. Powell. “Networks, Propinquity, & Innovation in Knowledge-Intensive Industries.” *Administrative Science Quarterly*. 54(1): 90-122.
- 2009 McCormick, Jennifer, Jason Owen-Smith, and Christopher Thomas Scott. ”Distribution of Human Embryonic Stem Cells: Who, When, and Where” *Cell Stem Cell*. 4:107-110.
- 2007 Powell, Walter W. Jason Owen-Smith & Jeannette Colyvas. ”Innovation and Emulation: Lessons from the Experiences of U.S. Universities in Selling Private Rights to Public Knowledge.” *Minerva*. 45:121-142.
- 2006 Owen-Smith, Jason & Jennifer McCormick. “An International Gap in Human Embryonic Stem Cell Research.” *Nature Biotechnology*. 24(6): 391–392.
- 2005a Owen-Smith, Jason. “Dockets, Deals, and Sagas: Commensuration and the Rationalization of Experience in University Licensing.” *Social Studies of Science*. 35(1): 69–97.
- 2005 Powell, Walter W., Douglas R White, Kenneth W. Koput, & Jason Owen-Smith. “Network Dynamics and Field Evolution: The Growth of Interorganizational Collaboration in the Life Sciences.” *American Journal of Sociology*. 110(4): 1132–1205.
- 2004 Owen-Smith, Jason & Walter W. Powell “Knowledge Networks as Channels and Conduits: The Effects of Formal Structure in the Boston Biotechnology Community.” *Organization Science*. 15(1): 5–21.
- 2004 White, Douglas R. Jason Owen-Smith, James Moody, & Walter W. Powell. ”Networks, Fields, and Organizations: Scale, Topology, and Cohesive Embeddings.” *Computational and Mathematical Organizational Theory*. 10: 95-117.
- 2003 Owen-Smith, Jason. “From Separate Systems to a Hybrid Order: Accumulative Advantage Across Public and Private Science at Research One Universities.” *Research Policy*. 32(6): 1081–1104.
- 2003 Owen-Smith, Jason & Walter W. Powell. “The Expanding Role of University Patenting in the Life Sciences: Assessing the Importance of Experience and Connectivity.” *Research Policy*. 32(9): 1695–1711.

- 2002 Owen-Smith, Jason, Massimo Riccaboni, Fabio Pammolli, & Walter W. Powell. "A Comparison of U.S. and European University-Industry Relations in the Life Sciences." *Management Science*. 48(1): 24–43.
- 2001 Owen-Smith, Jason. "Managing Laboratory Work Through Skepticism: Processes Evaluation and Control." *American Sociological Review*. 66(3): 427–452.
- 2001a Owen-Smith, Jason & Walter W. Powell. "To Patent or Not: Faculty Decisions and Institutional Success at Technology Transfer." *Journal of Technology Transfer*. 26(1): 99–114.
- 2001b Owen-Smith, Jason & Walter W. Powell. "Careers and Contradictions: Faculty Responses to the Transformation of Knowledge and Its Uses in the Life Sciences." *Research in the Sociology of Work*. 10: 109–140.
- 1999 Powell, Walter W., Kenneth W. Koput, Laurel Smith-Doerr & Jason Owen-Smith. "Network Position and Firm Performance: Organizational Returns to Collaboration in the Biotechnology Industry." *Research in the Sociology of Organizations*. 16: 229–254.
- 1998 Powell, Walter W. & Jason Owen-Smith. "Universities and the Market for Intellectual Property in the Life Sciences." *Journal of Policy Analysis and Management*. 17(2): 253–277.

REVIEWS, ESSAYS, & COMMENTARY

- 2014 Lane, Julia & Jason Owen-Smith. "Science Funding – Do We Know What We Get for Our Money?" *Congressional Roll Call Quarterly*. September 19, 2014.
- 2012 Owen-Smith, Jason, Christopher Thomas Scott, & Jennifer B. McCormick. "Expand and Regularize Funding for Pluripotent Stem Cell Research." *Journal of Policy Analysis & Management* 31(1): 714-722.
- 2012 Owen-Smith, Jason, Christopher Thomas Scott, & Jennifer B. McCormick. "Democracy Is Working." *Journal of Policy Analysis & Management* 31(1): 726-729 .
Invited Point/Counterpoint Commentary
- 2009 Scott, Christopher Thomas, Jason Owen-Smith, & Jennifer McCormick. "We must reverse the Bush legacy of stem-cell problems." *Nature* 460:33.
Invited Correspondence
- 2006 Owen-Smith, Jason. Review of Johann Peter Murmann's *Knowledge and Competitive Advantage*. *American Journal of Sociology*. 112: 646– 648.
- 2006 Owen-Smith, Jason. "Examining the Worldly University: Ambivalence, Paradox, and the Future of Academe." *American Journal of Education*. 112: 301–306.
Invited Review Essay.

- 2005 Owen-Smith, Jason. Review of Daniel Lee Kleinman's *Impure Cultures*. *American Journal of Sociology*. 110: 815–816.
- 2004 Owen-Smith, Jason. Review of Sheldon Krinsky's *Science in the Private Interest*. *Academe*. 90: 59–60.
- 2002 Pammolli, Fabio, Massimo Riccaboni, Jason Owen-Smith & Walter W. Powell. "Europe and the United States: The Power of Networks." *Biofutur* 222: 26–29.
- 2002 Owen-Smith, Jason. "Between the Ivory Tower and the Market." Review of Corynne McSherry's *Who Owns Academic Work?* *Science*. 295: 1840.
- 2002 Owen-Smith, Jason. Review of Andrew Chan's *Critically Constituting Organizations*. *Contemporary Sociology*. 31: 282–283.
- 2001 Owen-Smith, Jason. "Stabilising Technology Through Talk." Review of Charles Bazerman's *The Languages of Edison's Light*. *Meta-Science*. 10: 232–234.
- 1995 Smith, Jason D. "Pedagogy and Practice in Academic Sociology." *Proceedings: Ninth National Conference on Undergraduate Research*. University of North Carolina at Asheville Press.

CHAPTERS

- 2017 Sattari, Reza, Julia I. Lane & Jason Owen-Smith. "New Insights into Food Safety Research Teams." Pp. 113-126 in Kaye Husbands Fealing et. al (eds.) *Measuring the Economic Value of Research: The Case of Food Safety*. London: Cambridge University Press.
- 2016 Owen-Smith, Jason. "Networks: The Basics." Pp. 215-239 in Foster, Ian, Rayid Ghani, Ron S. Jarmin, Frauke Kreuter, & Julia Lane (eds.) *Big Data and Social Science: A Practical Guide to Methods and Tools*. CRC Press.
- 2012 Owen-Smith, Jason. "University Intellectual Property Policies Create Unintended Consequences." Pp. 239-276 in Johnstone, B.D. & J.E. Lane (eds.) *Colleges and Universities as Economic Drivers*. State University of New York Press.
- 2012 Powell, Walter W. & Jason Owen-Smith. "An Open Elite: Arbiters, Catalysts, or Gatekeepers in the Dynamics of Industry Evolution?" Pp. 466-495 in J. Padgett & W.W. Powell (eds.) *The Emergence of Organizations and Markets*. Princeton University Press.
- 2011 Powell, Walter W., Jason Owen-Smith, & Laurel Smith-Doerr. "Sociology and the Science of Science Policy." Pp. 56-84 in *The Handbook of the Science of Science Policy*. K.H. Fealing, J. Lane, J.H. Marburger, S. Shipp & B. Valdez eds.
- 2008 Owen-Smith, Jason & Walter W. Powell. "Networks and Institutions." Pp. 594–621 in R. Greenwood et. al (eds.) *Handbook of Organizational Institutionalism*. New York: Sage.

- 2006 Owen-Smith, Jason & Walter W. Powell. "Accounting for Emergence and Novelty in Boston and Bay Area Biotechnology." Pp. 61–86 in P. Braunerhjelm & M. Feldman (eds.) *Cluster Genesis: The Emergence of Technology Clusters and Their Implications for Government Policy*. Oxford: Oxford University Press.
- 2006 Owen-Smith, Jason. "Commercial Imbroglios: Proprietary Science and the Contemporary University." Pp 63–90 in S. Frickel & K. Moore (eds.) *The New Political Sociology of Science: Institutions, Networks, and Power*. Madison: University of Wisconsin Press.
- 2002 Powell, Walter W. & Jason Owen-Smith. "The New World of Knowledge Production in the Life Sciences." Pp. 107–132 in Steven Brint (ed.) *The Future of the City of Intellect: The Changing American University*. Palo Alto: Stanford University Press.
- 2001 Owen-Smith, Jason. "New Arenas for Academic Competition: Accumulative Advantage and Stratification in University Patenting." Pp. 23–54 in Jennifer Croissant & Sal Restivo (eds.) *Degrees of Compromise: Industrial Interests and Academic Values*. SUNY Press.
- 1999 Smith-Doerr, Laurel, Jason Owen-Smith, Kenneth W. Koput, & Walter W. Powell. "Networks and Knowledge Production: Collaboration and Patenting in Biotechnology." Pp. 390-408 in Roger Th.A.J. Leenders & Shaul Gabbay (eds.) *Corporate Social Capital & Liability*. Kluwer Academic Publishers.

REPORTS & WHITE PAPERS

- 2014 Celeste, Richard F., Ann Griswold, & Miron Straf (Eds.) *Furthering America's Research Enterprise*. Washington, D.C.: The National Academies Press (Committee Member).
- 2013 Owen-Smith, Jason. "Workplace Design, Collaboration & Discovery." Paper commissioned by the National Research Council Committee on the Science of Team Science.
- 2012 Owen-Smith, Jason, Felichism Kabo, Margaret Levenstein, Richard Price & Gerald F. Davis. "A Tale of Two Buildings: Socio-Spatial Significance in Innovation." Institute For Social Research, University of Michigan.

SELECTED EXTERNAL GRANTS - LAST 5 YEARS

- 2019- "Creating a Data Quality Control Framework for Producing New Personnel-Based S&E Indicators." National Science Foundation. \$462,000 (PI with Jinseok Kim)
- 2019- "Building Big Data Capacity for Education and Social Science Research Communities Using Restricted Administrative Data." National Science Foundation. \$997,600.

- 2018- “Collaborative Research: New Insights into STEM Pathways: The role of peers, networks, and demand.” National Science Foundation. \$930,260.
- 2017- “Developing and Supporting the IRIS Research Community.” Alfred P. Sloan Foundation. \$738,000.
- 2015- “Medical Decision Making and Network Assembly Mechanisms in In Patient Surgical Care.” National Science Foundation \$349,305 (PI with John Hollingsworth)
- 2015- “Collaborative Research: STEM Training, Employment in Industry, and Entrepreneurship” National Science Foundation \$2,400,000 (PI with Bruce Weinberg, Julia Lane, & Josh Hawley)
- 2014-2018 “The Institute for Research on Innovation and Science (IRIS).” Ewing Marion Kauffman Foundation. \$1,500,000 (PI with James Evans, Julia Lane, Barbara Mcfadden-Allen, Ron Jarmin, & Bruce Weinberg)
- 2014-2017 “The Institute for Research on Innovation and Science (IRIS).” Alfred P. Sloan Foundation. \$1,000,000. (PI with James Evans, Julia Lane, Barbara Mcfadden-Allen, Ron Jarmin, & Bruce Weinberg)
- 2014 “Building an Implementation Roadmap for an Institute for Research on Innovation and Science (IRIS).” Ewing Marion Kauffman Foundation \$250,000 (Co-PI with Bruce Weinberg, Julia Lane, & Barbara McFadden-Allen)
- 2014 “Fall 2014 Michigan Workshop on Learning and Research Analytics” Alfred P. Sloan Foundation \$60,000 (Co-PI w/ Margaret Levenstein & Tim McKay)
- 2013-2016 “Building Community and Data Infrastructure for Science Policy.” National Science Foundation \$572,544 (Co-PI w/ Margaret Levenstein & Julia Lane)
- 2012-2015 “Building a US Innovation Network (I-Corps) Node in Michigan.” National Science Foundation \$1,499,997 (Co-PI w/ Thomas Zurbruchen & Aileen Huang-Saad)
- 2012-2015 “Estimating the Economic Impact of Federal R&D Spending by Universities.” National Science Foundation \$246,743 (Co-PI w/ Margaret Levenstein)

TEACHING INTERESTS

Organization Theory, Economic Sociology, Social Networks, Sociology of Science & Technology, Innovation, Entrepreneurship, Research Methods

UNDERGRADUATE COURSES

OrgStudy 201: Leadership & Collaboration
 OrgStudy 202: Practicum in Leadership & Collaboration

Soc/OrgStudy 215: Organization & Society
Sociology 420: Complex Organizations.
Organizational Studies 310: Formal Organizations and Environments
Organizational Studies 495: Research Seminar in Organizations and Innovation
Organizational Studies 490: United States Knowledge Economy (USKE)

PH.D. COURSES

Sociology 595: Science, Technology, & Society
Sociology 507: Logics and Strategies of Social Research
Sociology 515: Economic Sociology & Organizations
Sociology 595: Networks, Institutions, & Identities

DISSERTATION COMMITTEES

Klaus Weber, Chris Marquis, Jeremy Birnholtz, Matthew Bietz, David Sommerfeld, Louise Dobish, Eric Neuman, Ella Paneyahk, Anne Fleischer, Rebecca Henn, Danielle Molina, Pete Bacevice, Jennifer Day, Helena Buhr (Chair), Mariana Craciun (Chair), Steph Osbaken, Eric Eide, Russ Funk (Chair), Elizabeth M. Armstrong, Karina Kervin, SunTae Kim, Natalie Cotton, Dan Hirschman, Todd Schiefeling.

EDITORIAL BOARDS & EDITORSHIPS

2009-2015 Editorial Board, *Administrative Science Quarterly*
2007-2010 Editorial Board, *Organization Science*
2007-2010 Advisory Editor, *Research Policy*

AD HOC REVIEWING

Academy of Management Journal; Administrative Science Quarterly; American Economic Review; American Journal of Sociology; American Sociological Review; Journal of Policy Analysis & Management; Management Science; National Science Foundation (Multiple Programs); Nature Biotechnology; Organization Science; Organizational Studies; Research Policy; Science, Technology, & Human Values; Social Forces; Social Problems; Social Studies of Science; Sociological Forum; Sociological Methodology; Sociological Theory; Sociology of Education; Work & Occupations

SERVICE ACTIVITY AVAILABLE UPON REQUEST.