

# RUSSELL J. FUNK

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## EDUCATION

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### UNIVERSITY OF MICHIGAN

2014 Ph.D.

Concentration: Economic Sociology and Organizations

Dissertation: *Essays on Collaboration, Innovation, and Network Change in Organizations*

Committee: Jason Owen-Smith (chair), Gautam Ahuja, Mark Mizruchi, and Maxim Sytch

### UNIVERSITY OF MICHIGAN

2013 M.A.

Concentration: Economic Sociology and Organizations

### UNIVERSITY OF CHICAGO

2008 A.B. (with honors)

Concentration: Sociology

## ACADEMIC EMPLOYMENT

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### UNIVERSITY OF MINNESOTA

2014– Assistant Professor

Strategic Management and Entrepreneurship

Carlson School of Management

2014– Faculty Affiliate

Social Media and Business Analytics Collaborative

## RESEARCH INTERESTS

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Organizations, Technology, Innovation, Economic Geography, Health Care, Network Science, Natural Language Processing, Machine Learning, Big Data

## PUBLICATIONS

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### PEER REVIEWED ARTICLES IN SOCIAL SCIENCE JOURNALS

- In press Funk, Russell J., and Jason Owen-Smith “A dynamic network measure of technological change.” *Management Science*
- In press Funk, Russell J., and Daniel Hirschman. “Beyond nonmarket strategy: Market actions as corporate political activity.” *Academy of Management Review*
- 2014 Funk, Russell J. “Making the most of where you are: Geography, networks, and innovation in organizations.” *Academy of Management Journal* 57 (1):193–222.
- 2014 Funk, Russell J., and Daniel Hirschman. “Derivatives and deregulation: Financial innovation and the demise of Glass-Steagall.” *Administrative Science Quarterly* 59 (4):669–704.
- R&R Funk, Russell J., Helena Buhr, and Jason Owen-Smith. “Network portfolios and the authenticity premium: Market value across five high-technology sectors.” *American Journal of Sociology*
- Under review Funk, Russell J. “Search and structure: Network dynamics in knowledge intensive organizations.” *Administrative Science Quarterly* 59 (4):669–704.

### PEER REVIEWED ARTICLES IN MEDICAL JOURNALS

- In press Funk, Russell J., Jason Owen-Smith, Bruce E. Landon, John D. Birkmeyer, and John M. Hollingsworth. “Identifying natural alignments between ambulatory surgery centers and local health systems: Building broader communities of surgical care.” *Medical Care*
- 2015 Hollingsworth, John M., Russell J. Funk, Jason Owen-Smith, Bruce E. Landon, Brent K. Hollenbeck, and John D. Birkmeyer. “Assessing the reach of health reform to outpatient surgery with social network analysis.” *Annals of Surgery* 261 (3):468–472.
- 2015 Hollingsworth, John M., Russell J. Funk, Spencer A. Garrison, Jason Owen-Smith, Samuel R. Kaufman, Bruce E. Landon, and John D. 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.
- Under review Hollingsworth, John M., Russell J. Funk, Spencer A. Garrison, Jason Owen-Smith, Samuel A. Kaufman, Bruce E. Landon, and Brahmajee K. Nallamothe. “The impact of physician teamwork on coronary artery bypass grafting outcomes.” *Circulation*

### PEER REVIEWED ARTICLES IN PHYSICS JOURNALS

- 2009 Halder, Gregory J., Hyunsoo Park, Russell J. Funk, Karena W. Chapman, Laura K. Engerer, Urs Geiser, and John A. Schlueter. “In-situ x-ray diffraction studies of host–guest properties in nanoporous zinc-triazolate-based framework materials.” *Crystal Growth & Design* 9 (8):3609–34.
- 2006 Schlueter, John. A., Russell J. Funk, and Urs Geiser. “Rigid, microporous 3D molecular frameworks derived from 3-amino-1,2,4-triazole.” *Journal of Low Temperature Physics* 142 (3/4):429–32.

- 2006 Schlueter, John A., Russell J. Funk, and Urs Geiser. “5-aminopyrimidine.” *Acta Crystallographica Section E* 62:339–41.
- 2005 Schlueter, John A., Russell J. Funk, and Urs Geiser. “Bis(4,4'-bipyridinium) hexacyanoplatinate(IV) bis(4,4'-bipyridine).” *Acta Crystallographica Section C* 61:304–6.

## OTHER PUBLICATIONS

- 2015 Funk, Russell J. “The dark side of brokerage: Conflicts between individual and collective pursuits of innovation” *Academy of Management Best Paper Proceedings* 2015(1): 11819.
- 2015 Hollingsworth, John M., Russell J. Funk, Spencer A. Garrison, Jason Owen-Smith, Samuel R. Kaufman, Bruce E. Landon, James E. Montie, and Brahmajee K. Nallamotheu. “The impact of care coordination on radical prostatectomy outcomes.” *Journal of Urology* 193 (4):e52-e-53.
- 2012 Funk, Russell J. Interview with Balázs Vedres About “Structural folds: Generative disruption in overlapping groups.” *Accounts: ASA Economic Sociology Section Newsletter* 11 (1):11-12.
- 2009 Funk, Russell J. Review of *The return of depression economics and the crisis of 2008*, by Paul Krugman. *Accounts: ASA Economic Sociology Section Newsletter* 8 (2):7-9.

## WORK IN PROGRESS

- Bapna, Sofia and Russell J. Funk. “Effects of information and brokerage on networking outcomes: A randomized field experiment of social network dynamics.”
- Funk, Russell J. “The dark side of brokerage: Conflicts between individual and collective pursuits of innovation.”
- Funk, Russell J. “Stitching Ties: Physician networks and surgical care performance.”
- Funk, Russell J. and Jason Owen-Smith. “When rebels meet radicals: Industry–university alliances and innovation across five sectors.”
- Funk, Russell J. and Maxim Sytch. “Interstitial field emergence and conflictual ties: The evolution of intellectual property disputes in nanotechnology.”
- Funk, Russell J., Maggie Bierlein, Jason Owen-Smith, Samuel A. Kaufman, Bruce E. Landon, Brahmajee K. Nallamotheu, and John M. Hollingsworth. “Physician social network integration is associated with lower costs of care among patients undergoing cardiac surgery.”
- Ghomrawi, Hassan M. K., Russell J. Funk, Michael L. Parks, Jason Owen-Smith, and John M. Hollingsworth. “Networks of physicians who treat total hip replacement patients in communities with high versus low proportions of African American residents.”
- Oelberger, Carrie R., and Russell J. Funk. “A thousand wildflowers or an English garden? Investment partner selection and the structuring of transnational networks.”

## AWARDS AND HONORS

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2015	Best Dissertation Award, Technology (Runner Up), Innovation Management and Entrepreneurship Section (TIMES) of the Institute for Operations Research and the Management Sciences (INFORMS)
2015	Louis R. Pondy Best Dissertation Paper Award (Runner Up), Organization and Management Theory (OMT) Division of the Academy of Management
2014	James D. Thompson Award (Honorable Mention), Organizations, Occupations, and Work (OOW) Section of the American Sociological Association
2013–2014	Rackham Predoctoral Fellowship, University of Michigan
2009–2012	National Science Foundation Graduate Research Fellowship
2012	Katherine Luke Graduate Student Paper Award (Honorable Mention), University of Michigan
2011	Best Student Paper Award, Technology and Innovation Management Division of the Academy of Management
2009, 2010	Departmental Fellowship, University of Michigan
2009	High Pass, Economic Sociology and Organizations Preliminary Examination, Department of Sociology, University of Michigan
2008	LSA Regents Fellowship, University of Michigan
2007–2008	Francis A. Bobkoski Scholarship, University of Chicago
2006–2007	William H. and Vera M. Sloan Scholarship, University of Chicago

## SELECTED INVITED PRESENTATIONS

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2015	University of Chicago, Booth School of Business, November 11.
2015	University of Minnesota, Management Information Systems Research Center, November 6.
2015	Dartmouth College, Tuck School of Business, August 4.
2015	University of Minnesota, Social Media and Business Analytics Collaborative, May 14.
2015	University of Minnesota, Strategic Management and Entrepreneurship, Carlson School of Management, April 17.
2014	University of Michigan, Interdisciplinary Committee on Organizational Studies and Office of Advanced Research Computing, Big Data Camp, May 21.
2014	University of Minnesota, Carlson School of Management, February 3.
2014	Northwestern University, Kellogg School of Management, January 29.
2014	Harvard Business School, Entrepreneurial Management Unit, January 23.
2014	Harvard Business School, Strategy Unit, January 22.

- 2014 University of Washington, Foster School of Business, January 17.
- 2014 Washington University in St. Louis, Olin Business School, January 13.
- 2014 University of North Carolina, Kenan-Flagler Business School, January 10.
- 2013 Carnegie-Mellon University, Tepper School of Business, December 12.
- 2013 Duke University, Fuqua School of Business, December 4.
- 2013 Cornell University, School of Industrial and Labor Relations, December 2.
- 2013 University of Arizona, Eller College of Management, November 25.
- 2013 Georgia Institute of Technology, Scheller College of Business, November 22.
- 2013 Princeton University, Department of Sociology and Woodrow Wilson School of Public and International Affairs, November 18.
- 2013 University of Oregon, Lundquist College of Business, November 8.
- 2013 University of Washington, School of Business, October 25.
- 2013 Oregon State University, College of Business, October 22.
- 2013 Brown University, Department of Sociology and Program in Business, Entrepreneurship and Organizations Program, October 17.
- 2013 University of Illinois at Chicago, College of Business Administration, October 7.
- 2013 University of Michigan, Ross School of Business, Strategy, October 4.
- 2013 University of Michigan, Interdisciplinary Committee on Organizational Studies and Office of Advanced Research Computing, Big Data Camp, May 21.
- 2013 University of Michigan, Ross School of Business, Management and Organizations Brown Bag, March 13.
- 2013 University of Michigan Health System, Dow Division for Urologic Health Services Research, March 6.
- 2012 University of Chicago, Computation Institute, November 30, 2012.
- 2012 University of Michigan, Office of Research Cyberinfrastructure, November 8.
- 2011 University of Michigan, Ross School of Business, Strategy Brown Bag, July 14.
- 2010 University of Michigan, Departments of Organizational Studies and Political Science, Networks Workshop, December 14.

## SELECTED CONFERENCE PRESENTATIONS AND ACTIVITIES

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- 2016 “Team Experience, Hospital Connectedness, and Surgical Care Performance.” *Intra-Organizational Networks (ION) Conference*, LINKS Center for Social Network Analysis, University of Kentucky, Lexington, KY.
- 2015 “Managing Informal Networks for Innovation.” *Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting*, Philadelphia, PA.

- 2015 “Stitching Ties: Physician Networks and Hospital’s Surgical Care Performance.” Designing Governance, Ecosystems and Intraorganizational Relationships for Creating Value and Innovation, *Organizational Design Community Annual Conference*, Vancouver, BC.
- 2015 “A ‘Big Data’ Approach to Networks in Organizations.” Revitalizing Organization Theory, Professional Development Workshop, *Academy of Management Annual Meeting*, Vancouver, BC.
- 2015 “The Dark Side of Brokerage: Conflicts Between Individual and Collective Pursuits of Innovation.” Brokerage in Networks: Who Benefits and How? *Academy of Management Annual Meeting*, Vancouver, BC.
- 2015 “Practical Challenges of Managing a Research Pipeline.” OMT Doctoral Consortium, Professional Development Workshop, *Academy of Management Annual Meeting*, Vancouver, BC.
- 2015 Workshop facilitator for “Using Tensions and Contradictions to Advance Process Research.” Process Research Professional Development Workshop, *Academy of Management Annual Meeting*, Vancouver, BC.
- 2014 “Big Data and Process Research Methods.” Novel Data and Methods in Process Research, Professional Development Workshop, *Academy of Management Annual Meeting*, Philadelphia, PA.
- 2013 “When Rebels Meet Radicals: Industry–University Alliances and Innovation Across Five Sectors.” *Academy of Management Annual Meeting*, Orlando, FL.
- 2013 Session chair for “Firm Problem-Solving.” *Academy of Management Annual Meeting*, Orlando, FL.
- 2013 Technology and Innovation Management Doctoral Consortium. *Academy of Management Annual Meeting*, Orlando, FL.
- 2012 “Measuring Innovation and Social Influence with Directed Acyclic Graphs.” *Cyberinfrastructure Days*, Ann Arbor, MI.
- 2012 “A Proposal for Microsoft Academic Search.” (with Geoffrey Fox). *Internet2–Microsoft Workshop on Cloud Services and Cyberinfrastructure for the Social Sciences*, Seattle, WA.
- 2012 “Measuring Innovation and Social Influence with Directed Acyclic Graphs.” *International Conference on Network Science (NetSci’12)*, Evanston, IL.
- 2012 “Measuring Radical Innovation Using Interrupted Patent Citation Flows.” *Academy of Management Annual Meeting*, Boston, MA.
- 2012 Session Chair for “Brokerage Dynamics.” *Academy of Management Annual Meeting*, Boston, MA.
- 2011 “Making the Most of Where You Are: Local Environments, Intra-Organizational Networks, and Innovation in the Nanotechnology Industry.” *Academy of Management Annual Meeting*, San Antonio, TX.
- 2011 “Relational Signals and Institutional Expectations: Ego Networks and Market Value Across Five High-Technology Sectors.” *Academy of Management Annual Meeting*, San Antonio, TX.

- 2011 “Endogenous Legal Change: How Organizations Re-Shaped Glass-Steagall.” (with Daniel Hirschman). *American Sociological Association Annual Meeting*, Las Vegas, NV.
- 2010 “Organizational Resources and the Emergence of Interdisciplinary Fields of Study.” *American Sociological Association Annual Meeting*, Atlanta, GA.

## AUTHORED SOFTWARE

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`dagraphs` C++ library for the analysis of dynamic directed acyclic graphs. Selected for participation in Google academic code review pilot program (available upon request).

## GRANTS

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2015 “Composition and performance of accountable care organizations.” Dean’s Small Grant, Carlson School of Management, University of Minnesota. \$1,000

2013 “Building a big data users’ group for organizational studies.” Rackham Graduate School, University of Michigan. \$1,500 (with Gerald F. Davis)

2012 “Modeling organic and inorganic network change in research-intensive organizations.” Rackham Graduate School, University of Michigan. \$3,000

2012 “University collaboration and breakthrough innovation in technology-intensive entrepreneurial firms.” Interdisciplinary Committee on Organizational Studies. \$3,000

2012 “University collaboration and breakthrough innovation in technology-intensive entrepreneurial firms.” Rackham Graduate School, University of Michigan. \$6,000

2012 “Organizational resources and interdisciplinary collaboration.” Rackham Graduate School, University of Michigan. \$1,500

2009–2014 Rackham Conference Travel Grant University of Michigan. \$4,000

2010–2012 Research Grant Department of Sociology, University of Michigan. \$1,100

## PROFESSIONAL SERVICE

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2015 Member, James D. Thompson Award Committee, Organizations, Occupations, and Work (OOW) Section of the American Sociological Association.

2013–2014 Consultant, Big Data Camp, Interdisciplinary Committee on Organizational Studies and Office of Advanced Research Computing, University of Michigan.

2013–2014 Chair, Interdisciplinary Committee on Organizational Studies Big Data User’s Group (IBUG), University of Michigan.

2010–2011 Student Representative, Executive Committee, Department of Sociology, University of Michigan.

2009–2010 Co-Chair, Sociology Graduate Students (SGS) organization, University of Michigan.

2009–2010 Conference Organizer, Michigan Social Theory Conference.

2008–2009 Editor of *Accounts*, the newsletter of the Economic Sociology section of the American Sociological Association.



## AD HOC REVIEWING

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*Academy of Management Journal, Academy of Management Review, Administrative Science Quarterly, American Journal of Sociology, Cancer, City & Community, German Israeli Foundation for Scientific Research and Development, Journal of Management, Journal of Management Studies, Management Science, Recent Patents on Engineering, Routledge, Social Networks, Sociological Quarterly, and the Annual Meetings of the Academy of Management*

## COMPUTER AND PROGRAMMING SKILLS

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Statistical environments: R, Stata, SAS

Programming: Python, Django, SQL, Java, JavaScript, C++, C, Unix shell scripting, HTML, CSS

## PROFESSIONAL MEMBERSHIPS

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Academy of Management

American Sociological Association

Association for Computing Machinery

Institute for Operations Research and the Management Sciences