

August 2018

## Jeffrey A. Smith

### Curriculum Vitae

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Department of Sociology  
University of Nebraska-Lincoln  
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### Academic Positions

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2013-Present Assistant Professor, Department of Sociology, University of Nebraska-Lincoln

### Education

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- 2013 Ph.D. in Sociology, Duke University, Durham, NC
- 2008 M.A. in Sociology, Duke University, Durham, NC  
Preliminary Examination Areas: Social Networks and Stratification
- 2005 B.S. in Economics and English, University of Wisconsin-Madison

### Areas of Interest

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*Social Networks, Quantitative Methods, Computational Social Science, Social Inequality*

### Publications

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#### Books

Rawlins, Craig, Dan McFarland, James Moody, and Jeffrey A. Smith. *Integrated Network Science: Applied Social Network Analysis in R*. Under contract with Cambridge University Press. [Expected completion date: Fall 2018]

#### Articles (\*denotes graduate student co-author)

Smith, Jeffrey A. and Jessica Burrow\*. 2018. "Using Ego Network Data to Inform Agent-Based Models of Diffusion." *Sociological Methods & Research*. doi: 10.1177/0049124118769100

Smith, Jeffrey A. 2017. "A Social Space Approach to Testing Complex Hypotheses: The Case of Hispanic Marriage Patterns in the U.S." *Socius* 3:2378023117739176. doi: 10.1177/2378023117739176.

- Smith, Jeffrey A., James Moody and Jonathan H. Morgan\*. 2017. "Network Sampling Coverage II: The Effect of Non-Random Missing Data on Network Measurement." *Social Networks* 48:78-99. doi: <http://dx.doi.org/10.1016/j.socnet.2016.04.005>.
- Pavan, A., P. Quint, S. Scott, N. V. Vinodchandran, and J. Smith. 2016. "Computing Triangle and Open-Wedge Heavy-Hitters in Large Networks." *IEEE International Conference on Big Data (IEEE BigData 2016): 98-1005*. doi: [10.1109/BigData.2016.7840699](https://doi.org/10.1109/BigData.2016.7840699)
- Verdery, Ashton M., M. Giovanna Merli, James Moody, Jeffrey Smith, and Jacob C. Fisher. 2015. "Respondent-driven sampling estimators under real and theoretical recruitment conditions of female sex workers in China." *Epidemiology* 26: 661-665.
- Smith, Jeffrey A. 2015. "Global Network Inference from Ego Network Samples: Testing a Simulation Approach." *The Journal of Mathematical Sociology* 39:125-162.
- Smith, Jeffrey A. and Robert Faris. 2015. "Movement without mobility: Adolescent status hierarchies and the contextual limits of cumulative advantage." *Social Networks* 40:139-153.
- Merli, M. Giovanna, James Moody, Jeffrey Smith, Jing Li, Sharon Weir, and Xiangsheng Chen. 2015. "Challenges to recruiting population representative samples of female sex workers in China using Respondent Driven Sampling." *Social Science & Medicine* 125:79-93.
- McFarland, Dan, James Moody, David Diehl, Jeffrey A. Smith, and Reuben J. Thomas. 2014. "Network Ecology and Adolescent Social Structure." *American Sociological Review* 79:1088-1121.
- Smith Jeffrey A., McPherson, Miller, and Lynn Smith-Lovin. 2014. "Social Distance in the United States: Sex, Race, Religion, Age and Education Homophily among Confidants, 1985-2004." *American Sociological Review* 79:432-456.
- Smith, Jeffrey A. and James Moody. 2013. "Structural effects of network sampling coverage I: Nodes missing at random." *Social Networks* 35:652-668.
- Smith, Jeffrey A. 2012. "Macrostructure from Microstructure: Generating Whole Systems from Ego Networks." *Sociological Methodology* 42:155-205.

### **Book Chapters**

- Smith, Jeffrey A. Forthcoming. "The Continued Relevance of Ego Network Data." in the *Oxford Handbook of Social Networks*. Edited by Ryan Light and James Moody

### **Other Publications**

- Smith, Jeffrey A., Lynn Smith-Lovin and Miller McPherson. 2008. "Social Isolation." *Encyclopedia of Human Relationships*.

## Grants

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### Grants Submitted (Under Review)

Smith, Jeffrey A. (project PI). “Capturing Rural Injection Risk Networks from Continuous-time Interaction Data” as project leader as part of larger COBRE center submission: PI Kirk Dombrowski. NIH P20 GM121321-01  
[Grant is very likely to be funded;  
Budget for entire Center: 11,740,372; Budget for my project (direct costs): 400,000]

### Awards and Fellowships

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| 2018         | Nebraska Association for Sociology Graduate Students Faculty Mentoring Award   |
| 2016         | Haas Faculty Award, University of Nebraska-Lincoln Department of Sociology   |
| 2013         | International Network for Social Network Analysis (INSNA) Best Student Paper Award for “Macrostructure from Survey Data: Generating Whole Systems from Ego Networks” |
| 2011-2012    | PARISS (Program for Advanced Research in the Social Sciences) Fellow, Social Science Research Institute, Duke University   |
| 2011-2012    | Vorsanger-Smith Scholar, Department of Sociology, Duke University (Department award to recognize overall excellence in the graduate program.)                        |
| 2011         | Duke Summer Research Fellowship  |
| 2010         | ASA Mathematical Sociology Section Outstanding Dissertation in Progress Award  |
| 2006-2010    | James B. Duke Fellowship   |
| 2008, 09, 11 | Conference Travel Award, Graduate School, Duke University  |
| 2006         | Graduate Student Fellowship, Duke University   |

### Invited Talks and Workshops

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| 2018 | SBSRC Interdisciplinary Workshop Series, 1 Day Course: Introduction to Social Network Analysis in R, University of Nebraska-Lincoln |
| 2016 | DNAC Social Networks and Health Seminar, 2 Courses: Ego Network Analysis and Exponential Random Graph Models in R, Duke University  |
| 2015 | PSU Quantitative Methods Seminar, 1 Day Course: Introduction to Social Network Analysis, Portland State University                  |

- 2012 Smith, Jeffrey A. “Tracking Categories and Interaction Over Time: a Dynamic, Distance based Homophily Model” Paper presented at PARISS Speaker Series at Duke University.
- 2011 Smith, Jeffrey A. “Macrostructure from Survey Data: Generating Whole Systems from Ego Networks” Paper presented at Add Health Users Conference, Chapel Hill NC
- 2010 LINKS Workshop, 2 Day Course: ERGM and Statistical Models for Networks, University of Kentucky
- 2009 Moody, James, Jeffrey A. Smith and Robin Gauthier. “Network Visualizations for Diffusion Studies”. Paper presented at Joint Statistical Meeting, Washington D.C.

**Selected Presentations at Professional Meetings**

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- 2018 Smith, Jeffrey A. “Estimating Contextual Effects from Ego Network Data: The Case of Cohesion in Schools” Paper presented at Regular Session on Social Network Analysis: New Methodologies at the American Sociological Association Annual Meeting, Philadelphia, PA
- 2018 Smith, Jeffrey A., James Moody and Jonathan Morgan. “Network Sampling Coverage III: The Effects of Imputation”. Paper presented at Sunbelt Social Networks Conference, Utrecht, Netherlands. (Jon Morgan presented)
- 2018 Rosenblatt, Samuel, Jeffrey A. Smith and Robin Gauthier. “Immunization Strategies in Complex Networks: Addressing the Problem of Missing Data” Paper presented at Sunbelt Social Networks Conference, Utrecht, Netherlands. (Sam Rosenblatt presented)
- 2017 Harcey, Sela and Jeffrey A. Smith. “Measures of Race and Ethnic Identification: Implications of Classification and Operationalization” Paper presented at ASA Methodology Mid-year Meeting, Chicago IL. (Sela Harcey presented)
- 2017 Robinson, Jaala and Jeffrey A. Smith “Outsourcing Housework in the Modern Household” Paper presented at Midwest Sociological Society, Milwaukee, WI. (Jaala Robinson presented)
- 2016 Smith, Jeffrey A. and Jessica Burrow. “Computational Analysis of Inferential Methods on Social Network Diffusion.” Paper presented at Women in Statistics and Data Science Conference, Charlotte, NC. (Jessica Burrow presented)
- 2016 Smith, Jeffrey A., “Network Sampling Coverage II: The Effect of Non-Random Missing Data on Network Measurement” Paper presented the Regular Session on

Social Networks at the American Sociological Association Annual Meeting, Seattle, WA. (paper with James Moody and Jonathan H. Morgan)

- 2016 Smith, Jeffrey A. “Estimating Contextual Effects from Sampled Ego Network Data” Paper presented at Sunbelt Social Networks Conference, Newport Beach CA.
- 2014 Daw, Jonathan, Jacob E. Cheadle, Jeffrey Smith. “Competitions for Kidneys: Using Social Networks Methods to Understand Disparities in Kidney Transplant Receipt.” Paper presented the Regular Session on Health Policy at the American Sociological Association Annual Meeting, San Francisco, CA.
- 2014 Smith, Jeffrey A. “The Relational Structure of Race in America” Paper presented at Sunbelt Social Networks Conference, St. Pete Beach, FL.
- 2013 Merli, Giovanna, James Moody, Jeffrey A. Smith, Jing Li, Sharon Weir “Challenges to Recruiting Representative Samples of Female Sex Workers in China Using Respondent Driven Sampling: How Much of the Network Do We See?” Paper Presented at PAA, New Orleans, LA.
- 2012 Smith, Jeffrey A. “Network Sampling Coverage in RDS: How Much of the Network Do We See?” Paper presented at ASA H2R Conference, New Orleans, LA. (with M. Giovanna Merli, James Moody, Jing Li, Sharon Weir)
- 2012 Smith, Jeffrey A. “Macrostructure from Survey Data: Generating Whole Systems from Ego Networks, Part II” Paper presented at Sunbelt Social Networks Conference, CA.
- 2011 Smith, Jeffrey A. “Macrostructure from Survey Data: Generating Whole Systems from Ego Networks” Paper presented at Sunbelt Social Networks Conference, St. Pete Beach, FL.
- 2010 Smith, Jeffrey A. “Sampled Data and the Network Structure of Social Space” Paper Presented at Political Networks Conference, Duke University, Durham, NC.
- 2009 Smith, Jeffrey A. and Robert Faris. “The Dynamics of Adolescent Status Hierarchies” Paper presented at American Sociological Association Conference, San Francisco, CA.
- 2009 Smith, Jeffrey A. and James Moody. “Network Connectivity: Identifying Key Subgroups and Individuals” Paper presented at Sunbelt Social Networks Conference, San Diego, CA.
- 2008 McPherson, Miller and Smith, Jeffrey A. “Autocorrelation and Blau Space” Paper presented at Sunbelt Social Networks Conference, St. Pete Beach, FL.

## **Presider/Discussant at Professional Meetings**

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- 2018            Presider, “Issues in Social Network Data, Analysis and Epistemology” Regular Session at the American Sociological Association, Philadelphia, PA
- 2017            Presider, “Class Formation Processes” Regular Session at the American Sociological Association, Montreal, Canada.
- 2017            Presider, “Social Networks and Work” Roundtable in Section on Organizations, Occupations, and Work at the American Sociological Association, Montreal, Canada.

## **Media Outreach**

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- 2014            Media Attention for *Network Ecology and Adolescent Social Structure*  
Reported on in: [Washington Post](#), [ABC NEWS](#), [Science Daily](#), [Business Standard](#)
- 2014            Smith, Jeffrey A. Social networks are more demographically diverse than in the past, but the tendency for the alike to associate remains a strong force in society. *USApp: American Politics and Policy* ([online](#)). July 24.

## **Teaching**

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### **Courses Taught**

#### *University of Nebraska-Lincoln*

Social Networks, SOCI 398/898 (graduate networks course)  
History of Social Theory, SOCI 455/855 (graduate theory course)  
Advanced Regression Analysis, SOCI 867 (graduate course on categorical models)  
Introduction to Social Research II, SOCI 206 (undergraduate statistics course)  
Social Inequality, SOCI 480/880 (undergraduate inequality course)

#### *Duke University*

Quantitative Analysis of Sociological Data, Soc 132B (undergraduate statistics)

### **Student Committees**

#### *PhD Students*

Advisor: Sela Harcy (Sociology, current)  
Co-Advisor: Jaala Robinson (Sociology, current)

Member, Dissertation Committee: Brittany Piper (Sociology, current); Ian Duncan (Sociology, current)

#### *M.A. Students*

Member, Master’s Committee: Jessica Burow (Statistics, completed); Joseph Jochman (Sociology, completed); Shawn Ratcliff (Sociology, completed); Jamy

Rentschler (Sociology current); Courtney Thrash (Sociology, completed)

## **Research Positions**

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2005-2006 Bureau of Labor Statistics, Current Employment Statistics, Economist

## **National Professional Service**

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### **Professional Service/Committee Membership**

2018 Member, ASA Mathematical Sociology Dissertation-in-Progress Award Committee  
2016 Proposal Reviewer for NIH Social Sciences and Population Studies Section  
2013 Ad-hoc Reviewer for NSF Sociology Program

### **Editorial Board Member**

2019-2022 *American Sociological Review*  
2017-2020 *Social Science Research*

### **Ad hoc Reviewer for:**

*American Journal of Sociology, American Sociological Review, Complex Adaptive Systems, International Migration Review, Journal of Adolescent Health, Journal of Mathematical Sociology, Journal of Social Structure, Network Science, Physica A, Proceedings of the National Academy of Science, Sex Roles, Social Currents, Social Forces, Social Networks, Social Problems, Social Science & Medicine, Sociological Methodology, Sociological Methods and Research, Sociological Quarterly, Social Science Research, Sociological Spectrum, Socius*

### **Membership**

American Sociological Association (Sections: Inequality, Poverty and Mobility; Mathematical Sociology; Methodology)

INSNA

## **University and Departmental Service**

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### **University, University of Nebraska-Lincoln**

2017-Present Convocations Committee  
2017-Present College of Arts and Sciences Research Advisory Committee

### **Department of Sociology, University of Nebraska-Lincoln**

2015-2019 Graduate Committee

2015-2016 Executive Committee  
2014-2015 Resources and Planning Committee  
2013-2014 Graduate Committee