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Jeffrey A. Smith Curriculum Vitae

Department of Sociology
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Academic Positions

2021-present Graduate Chair, Department of Sociology, University of Nebraska-Lincoln
2019-present Associate Professor, Department of Sociology, University of Nebraska-Lincoln
2013-2019 Assistant Professor, Department of Sociology, University of Nebraska-Lincoln

Education

2013 Ph.D. in Sociology, Duke University, Durham, NC
2008 M.A. in Sociology, Duke University, Durham, NC
2005 B.S. in Economics and English, University of Wisconsin-Madison

Areas of Interest

Social Networks, Quantitative Methods, Computational Social Science, Substance Use, Health

Publications

Books

Rawlings, Craig, Jeffrey A. Smith, Daniel McFarland, James Moody “Network Analysis: Integrating Social Network Theory, Method, and Application with R” Under Contract at *Cambridge University Press*

Articles (*denotes graduate student co-author)

Gauthier, G. Robin., Jeffrey A. Smith, Sela Harcey, and Kelly Markowski 2022 “Isolation, cohesion and contingent network effects: the case of school attachment and engagement” *Connections* 42:1-15. doi:10.21307/connections-2019.025.

- Gauthier, G. Robin, Jeffrey A. Smith, Kelly Markowski, and Sela Harcey*. 2022 “Co-Use among Confidants: An examination of Polysubstance Use and Personal Relationships in Southeastern Nebraska”. *Addictive Behaviors* 124:107116. doi: <https://doi.org/10.1016/j.addbeh.2021.107116>.
- Smith, Jeffrey A., Jonathan H. Morgan and James Moody. 2022. "Network Sampling Coverage III: Imputation of Missing Network Data under Different Network and Missing Data Conditions." *Social Networks* 68:148-78. doi: <https://doi.org/10.1016/j.socnet.2021.05.002>.
- Harcey, Sela*, Gauthier, G. Robin, Markowski, Kelly L., Smith, Jeffrey. 2022 “Collecting Data from a Vulnerable Population during the COVID-19 Pandemic.” *Field Methods*, 34(3), 2022.
- Markowski, Kelly L., Jeffrey A. Smith, G. Robin Gauthier, and Sela Harcey*. 2021“Patterns of Missing Data with Ecological Momentary Assessment: Feasibility Report from a Pilot Study of People who Use Drugs.” *JMIR Formative Research* 5(9):e31421. doi: 10.2196/31421.
- Markowski, Kelly, G. Robin Gauthier, Jeffrey A. Smith and Sela Harcey*. 2021“Would I have your support? Family network features and past support exchanges associated with anticipated support for a substance use problem.” *Journal of Substance Use*:1-7. doi: 10.1080/14659891.2021.2006340
- Markowski, Kelly L., Jeffrey A. Smith, G. Robin Gauthier and Sela R. Harcey*. 2021. "Practical Problems and Positive Experiences with Ecological Momentary Assessment: Reflections from People Who Use Drugs." *The American Journal of Drug and Alcohol Abuse*:1-8. doi: 10.1080/00952990.2021.1910700.
- Gauthier, Gertrude R, Jeffrey A Smith, Catherine García, Marc A Garcia and Patricia A Thomas. 2020. "Exacerbating Inequalities: Social Networks, Racial/Ethnic Disparities, and the Covid-19 Pandemic in the United States." *The Journals of Gerontology: Series B*. doi: 10.1093/geronb/gbaa117.
- Smith, Jeffrey A. and G. Robin Gauthier 2020. “Estimating Contextual Effects from Ego Network Data”. *Sociological Methodology*. 50:215-275 doi: 10.1177/0081175020922879.
- Rosenblatt, Samuel F.*, Jeffrey A. Smith, G. Robin Gauthier and Laurent Hébert-Dufresne. 2020. "Immunization Strategies in Networks with Missing Data." *PLOS Computational Biology* 16(7):e1007897. doi: 10.1371/journal.pcbi.1007897.
- McPherson, Miller and Jeffrey A. Smith. 2019. “Network Effects in Blau Space: Imputing Social Context from Survey Data” *Socius*. <https://doi.org/10.1177/2378023119868591>
- 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
- 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.

Invited Book Chapters

- Smith, Jeffrey A. 2020. "The Continued Relevance of Ego Network Data." in the *Oxford Handbook of Social Networks*. Edited by Ryan Light and James Moody. doi: 10.1093/oxfordhb/9780190251765.013.15

Other Publications

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

Grants

Grants Awarded: Current Extramural Funding

Rural Drug Addiction Center (Director: Rick Bevins)
National Institute of Drug Abuse (NIDA)
Grant no. 1P20GM130461-01
Center for Biomedical Research Excellence (P20)
Role: Early Career Project Leader
Project Title: Capturing Rural Injection Risk Networks from Continuous-time Interaction Data
Sub-award direct costs of project: \$350,000

Advisory Boards and Consulting

2018-2023 “Worlds of Connections: Engaging Youth with Health Research through Network Science and Stories in Augmented Reality” (R25GM129836-01, PI Julia McQuillan)
Role: Advisory Board

Awards and Fellowships

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

- 2022 “Imputation Methods for Dealing with Missing Network Data” at DNAC Social Networks and Health Seminar
- 2021 “Missing Data and Bias” at DNAC Social Networks and Health Seminar (Jon Morgan presented joint work on missing network data)
- 2021 “Using Network Analysis to Measure Social Cohesion: Complete Versus Sampled Network Data” presented at Nebraska Methodology Application Series, Nebraska Center for Research on Children, Youth, Families and Schools
- 2019 “Data Collection Solutions to Common Problems in Network Analysis” presented at Network Data Collection Workshop at University of Texas-Austin
- 2019 SBSRC Interdisciplinary Workshop Series, 1 Day Course: Introduction to Social Network Analysis in R, University of Nebraska-Lincoln
- 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 Internal at UNL

- 2020 Smith, Jeffrey A. "Revisiting Rural-Urban Divides: Social Boundaries in an Age of Spatial Integration" Presented at UNL Sociology Colloquium
- 2020 Smith, Jeffrey A. "Missing Network Data: Implications for Immunization Strategies" Presented at RDAR Colloquium Series

Selected Presentations at Professional Meetings

- 2021 Smith, Jeffrey, adams, jimi, G. Robin Gauthier, Kelly Markowski "Social Clustering and the Effect of Immunization on Slowing Epidemic Spread on Dynamic Networks" paper presented at the Epidemiology section of Networks 2021 (joint meeting of NetSci and Sunbelt Social Networks Conference; virtual meeting)
- 2021 Harcey, Sela R., Robin Gauthier, Kelly L. Markowski, and Jeffrey Smith. "Collecting Network Data from a Vulnerable Population during the COVID-19 Pandemic: Reflections from Researchers and Participants" paper presented at the North American Social Network Meeting (virtual conference due to COVID-19, Sela Harcey presented).
- 2021 Kelly L. Markowski, Jeffrey Smith, Robin Gauthier, and Sela R. Harcey. "Would I Have Your Support? Family Network Features and Past Support Exchanges Associated with Anticipated Support for a Substance Use Problem" paper presented at the North American Social Network Meeting (virtual conference due to COVID-19, Kelly L. Markowski presented).
- 2021 Smith, Jeffrey, Sela R. Harcey, G. Robin Gauthier, Kelly Markowski. "Network Inference from Sampled Ego Network Data: The Problem of Measurement Error" paper presented at the North American Social Network Meeting (virtual conference due to COVID-19).
- 2021 Gauthier, G. Robin, Kelly L. Markowski, Jeffrey Smith, and Sela R. Harcey. "Network characteristics and polysubstance use: An examination of multiplex relationships" paper presented at the North American Social Network Meeting (virtual conference due to COVID-19, G. Robin Gauthier presented).
- 2020 Rosenblatt, Samuel, Jeffrey A. Smith and Robin Gauthier, Laurent Hébert-Dufresne "Improving the efficiency of stochastic immunization via targeted network discovery" NetSci 2020 conference (Samuel Rosenblatt presented).
- 2020 Smith, Jeffrey A., James Moody and Jonathan Morgan. "Network Sampling Coverage III: Imputation of Missing Network Data under Different Network and Missing Data Conditions". Paper presented at Regular Session on Social Network Analysis. American Sociological Association Annual Meeting (virtual conference)
- 2019 Gauthier, G. Robin and Jeffrey Smith "For Better or Worse: Closeness, Conflict and Complexity in Family Networks" Presented at Sunbelt Social Networks Conference, Montreal, QC. (Robin Gauthier presented)

- 2019 Smith, Jeffrey A., Robin Gauthier and Sela Harcey “Isolation, Cohesion and Contingent Network Effects: the Case of School Attachment and Behavioral Problems” Paper presented at Sunbelt Social Networks Conference, Montreal CA.
- 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

- 2021 Presider, "Quantitative Methodology" Regular Session at the American Sociological Association, Virtual Conference
- 2021 Presider, Roundtable in Section on Drugs and Society at the American Sociological Association, Virtual Conference
- 2020 Presider, "Secondary Health Issues", for RDAR Symposium on Substance Use Research, virtual conference.
- 2020 Presider, "Coffee Connector on Social Networks and Inequality" for RDAR Symposium on Substance Use Research, virtual conference.
- 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 and Other Outreach Activities

- 2019 Presented work to middle school teachers as part of Network Science Institute, an event sponsored by SEPA funded outreach project to facilitate teaching of network science in middle and high school
- 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

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

- Chair: Sela Harcy (Sociology, completed 2021)
- Co-chair: Jaala Robinson (Sociology, completed 2021)

Member, Dissertation Committee:

- Brittany Piper (Sociology, current)
- Maika Tuala (Sociology, current)
- Jamy Rentschler (Sociology, current)
- Rachel Stenger (Sociology, current)
- James Haws (Psychology, completed 2021)
- Reha Karadag (Business, completed 2021)

Ian Duncan (Sociology, completed 2019)

M.A. Students

Chair: Nester Hernandez (Sociology, current)

Chair: Eli Ornelas (Sociology, completed 2020)

Member, Master's Committee:

Eliza Thor (Sociology, completed 2020)

Marisa Cardwell (Sociology; completed 2019)

Jamy Rentschler (Sociology completed 2018)

Jessica Burow (Statistics, completed 2016)

Shawn Ratcliff (Sociology, completed 2017)

Joseph Jochman (Sociology, completed 2015)

Courtney Thrash (Sociology, completed 2015)

Undergraduate Research Assistants

Emma Dover (2021-current)

Adison Pace (2020-2021)

Hayden Myers (2019-2020)

Research Positions

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

National Professional Service

Professional Service/Committee Membership

2022 Panel Member for NIA (National Institute of Aging) Loan Repayment Program

2022 Panel Member for NSF (National Science Foundation)

2021 Mentor, for ASA Methodology Section Mentoring Program

2021 Member, ASA Mathematical Sociology Best Paper Award Committee

2021 Panel Member for NSF (National Science Foundation)

2021 Ad-hoc Reviewer for NSF Anthropology Program

2020 Chair, ASA Mathematical Sociology Dissertation-in-Progress Award Committee

2020 Ad-hoc Reviewer for SWF (Swiss National Science Foundation)

2019 Member, ASA Mathematical Sociology Graduate Student Paper Award Committee

2019 Ad-hoc Reviewer for FWF (Austrian Science Foundation)

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, Connections, Complex Adaptive Systems, Demography, Field Methods, International Journal of Drug Policy, International Migration Review, Journal of Adolescent Health, Journal of Health and Social Behavior, Journal of Mathematical Sociology, Journal of Social Structure, Network Science, Physica A, PLOS One, Proceedings of the National Academy of Science, Scientific Reports, Sex Roles, Social Currents, Sociology of Education, Social Forces, Social Networks, Social Problems, Social Science History, Social Science & Medicine, Social Science Computer Review, Sociological Methodology, Sociological Methods and Research Sociological Perspectives, Sociological Spectrum, Social Psychology Quarterly, Sociological Quarterly, Social Science Research, Sociological Spectrum, Socius

Membership

American Sociological Association (Sections: Mathematical Sociology; Methodology)

INSNA

University and Departmental Service

University, University of Nebraska-Lincoln

2021-Current Committee on Committees
2017-2020 Convocations Committee (chair 2018-2020)
2017-2019 College of Arts and Sciences Research Advisory Committee

Department of Sociology, University of Nebraska-Lincoln

2021-current Graduate Chair
2019-2021 Undergraduate Committee
2015-2019 Graduate Committee
2015-2016 Executive Committee
2014-2015 Resources and Planning Committee
2013-2014 Graduate Committee