

Yongren Shi

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Academic Positions Assistant Professor 2018 -
Department of Sociology and Criminology, The University of Iowa.
Faculty affiliate, Iowa Informatics Initiative.

Post-Doctoral Associate 2016 - 2018
Human Nature Lab, Yale Institute for Network Science.
Yale University.

Education Cornell University
Ph.D. in Sociology, 2016
Committee: Michael W. Macy (Chair), Douglas D. Heckathorn, Edward J. Lawler.
Huazhong University of Science and Technology
Master of Engineering, 2007
Bachelor of Engineering, 2005

Research Interests Social Networks; Political Opinions; Culture; Organizations; Social Psychology; Computational and Quantitative Methods; Mathematical Sociology.

Peer-Reviewed Publications Shi, Yongren, Chris Cameron and Douglas Heckathorn. 2019. "Model-based and Design-based Inference: Reducing Bias Due to Differential Recruitment in Respondent-Driven Sampling." *Sociological Methods and Research* vol. 48(1), 3-33.

Shi, Yongren, Craig E. Pollack, Pamela R. Soulos, Jeph Herrin, Nicholas A. Christakis, Xiao Xu, and Cary Gross. 2019. "The Impact of Social Influence on Surgical Practice: A Case Study of Preoperative MRI in Breast Cancer." *Medical Care* vol. 57(6):460-467.

Shi, Yongren, Yisook Lim and Chan S. Suh. 2018. "Between Deviation and Innovation: Boundary Crossing and Audience Evaluation in the Music Field." *Plos One* <https://doi.org/10.1371/journal.pone.0203065>

Behler, Rachel, Chan S. Suh, Matthew E. Brashears and **Yongren Shi**. 2018. "Familiar Faces, Familiar Spaces: Social Similarity and Co-Presence in Non-Relational Behavioral Convergence." *Network Science* 6(3), 396-429.

Shi, Yongren, Fedor Dokshin, Michael Genkin and Matthew E. Brashears. 2017. "A Member Saved is a Member Earned? The Recruitment-Retention Trade-Off and Organizational Strategies for Membership Growth." *American Sociological Review* 82(2): 407 - 434.

Feng Shi*, **Yongren Shi***, Fedor Dokshin, Michael W. Macy and James Evans. 2017. "Millions of Online Book Co-purchases Reveal Partisan Differences in the Consumption of Science." *Nature: Human Behaviour* doi:10.1038/s41562-017-0079 (* co-first authors with equal contribution).

- "How to judge a book by its network." editorial *Nature* 544, 5-6.
- Selected media coverage: *Wired*, *Scientific American*, *LA Times*, *the Guardian*, *Huffington Post*, *phys.org*, *UChicago News*, *Cornell Chronicle*, *Nature Asia*, *the Australian*.

Suh, Chan, **Yongren Shi** and Matthew Brashears. 2017. "Negligible Connections? The Role of Familiar Others in the Diffusion of Smoking among Adolescents." *Social Forces* 96(1): 423 - 448.

Shi, Yongren, Kai Mast, Ingmar Weber, Agrippa Kellum and Michael Macy. 2017. "Cultural Fault Lines and Political Polarization." in *Proceedings of the ACM Conference on Web Science*: doi:10.1145/3091478.3091520.

- Website: lifestyle-politics.com

Shi, Yongren and Michael W. Macy. 2016. "Measuring Structural Similarity in Large Online Networks" *Social Science Research* 59:97-106.

DellaPosta, Daniel, **Yongren Shi** and Michael W. Macy. 2015. "Why Do Liberals Drink Lattes?" *American Journal of Sociology* 120(5):1473-1511.

- Outstanding Article Publication Award at the Mathematical Sociology Section, American Sociological Association.
- Press coverage: *BBC News*, *Boston Globe*, *National Affairs*, *London School of Economics*, *TheSocietyPage*, *ChinaDaily*.

Other and Early Publications

James Kitts and Yongren Shi. 2018. "Toward an Analytic Framework of Social Influence: Behavioral Diffusion." Invited contribution for the National Academy of Science.

Yongren Shi. 2018. "Culture, Opinions and Social Influence." Book chap-

ter in *Exploring Computational Social Science* (in Chinese)

Heckathorn, Douglas D., Christopher Cameron, and Yongren Shi. 2014. Respondent-Driven Sampling: Origins, Current Developments, and Alternative Estimators. By *Proceedings of the International Methodology Symposium 2013*, Statistics Canada, Ottawa.

Shi, Yongren. 2007. “Is it Possible to Create Life in Computer?” Review of the Book *Digital Genesis - The New Science of Artificial Life*. *Studies in Dialectics of Nature* Vol. 23: 44-49. (In Chinese)

Shi, Yongren, Liang Gao and Jiang Zhang. 2006. “Agent-Based Computational Economics and its Application in Supply Networks” *Complex Systems and Complexity Science* Vol.3: 69-76. (In Chinese)

Shi, Yongren, Jiang Zhang, Liang Gao and Chi Zhou. 2006. “Scale-Free Networks Emerge out of Micro-Mechanism in an Agent-based Computational Economic Model.” In *Proceedings of the IEEE Conference on Computational Cybernetics*.

Grants

Co-Principal Investigator “Influence of National and Subnational News Media on News Consumption” *Social Science One* (with Fedor Dokshin; total amount requested: \$50,000; [Under review](#)) 2019-.

Co-Principal Investigator “Mapping the Many Pathways (In and Out) of the Post-secondary STEM Pipeline.” *National Science Foundation SciSIP* PI: Freda B. Lynn, Co-PIs: Yongren Shi, Katharine M. Broton. Total amount \$233,989 ([Funded](#)) 2019-2021

Principal Investigator “Understanding Membership Dynamics and Transformation of Online Deviant Groups” Grant Writing Support Summer Program, Department of Sociology, University of Iowa. ([Funded](#)) 2019

Principal Investigator *Yale University* Digital Humanities Laboratory Corpus Creation Seed Grant. \$1500. ([Funded](#)) 2017.

Amazon.com Amazon Web Service in Education Research Grant. \$452. ([Funded](#)) 2015.

Co-Principal Investigator “Examining Social Clustering and Division via Patterns of Purchasing and Reviewing.” *National Science Foundation* NSF Doctoral Dissertation Research Improvement Grant. \$11,938. PI: Michael W. Macy, Co-PI: Yongren Shi. ([Funded](#)) 2014.

- Awards and Fellowship**
- Old Gold Summer Fellowship. University of Iowa. 2019.
 - Travel Award. Paul and Marcia Wythes Center on Contemporary China, Princeton University. 2018.
 - Outstanding Article Publication Award of Mathematical Sociology Section, American Sociological Association. 2016.
 - Dissertation-in-Progress Award of Mathematical Sociology Section, American Sociological Association. 2016.
 - Sage Fellowship, Cornell University. 2015-2016; 2007-2009.
 - Graduate School Travel Awards, Cornell University. 2013; 2016.
 - Chinese Government Award for Outstanding Students Abroad. \$6,000. 2015.
 - Excellent Graduation Thesis Award in Hubei Province, China. 2007.
 - Complex System Summer School, Santa Fe Institute, at Beijing. 2007.
- Invited Talks**
- “Title T.B.D.” Duke Network Analysis Center. (Durham, North Carolina). Nov., 2019.
 - “Evolution and Turnover of Online Social Groups” IBS AI+X Forum, Institute for Basic Science (Daejeon, Korea). June, 2019.
 - “Evolution and Turnover of Online Social Groups” The 2019 World Congress Korea, Konkuk University (Seoul, Korea). June, 2019.
 - “Social Networks in Rural Honduras,” Kohn Colloquium, Department of Geographical and Sustainability Sciences, University of Iowa (Iowa City, IA). Mar., 2019.
 - “Social Networks and Big Data,” Cosponsored by Tencent Research Institute and the Swarma Club (Shenzhen, China). Nov., 2017.
 - “The Structure and Function of Multiplex Social Networks,” University of Iowa, (Iowa city, IA) Nov., 2017.
 - “Multiplexity Matters,”
 Harvard University (Cambridge, MA);
 University of Indiana, Bloomington (Bloomington, IN);
 Chinese University of Hong Kong (HK, China);
 Stanford University (Stanford, CA). Nov.-Dec., 2017.
 - “Robot-Human Interactions in Social Network Experiments,” School of Public Policy and Management, Tsinghua University (Beijing, China).

Jul., 2017.

“How to Do Research in Computational Social Science?” Department of Sociology, Shanghai University (Shanghai, China). Jul., 2017.

“Can We Agree on Science? Millions of book co-purchases reveal the political alignment and polarization of U.S. science.” Department of Sociology, the University of Iowa (Iowa City, IA). Feb., 2016.

Conference Presentations (selected)

“Structural Variation of Social Networks in Rural Honduras,” Paul and Marcia Wythes Center on Contemporary China, Princeton University (Princeton, NJ). Aug., 2018.

“Tie Multiplexity, Network motifs and Health Knowledge in Rural Honduras.” Human Nature Lab (New Haven, CT). Feb., 2017.

“Connections and Commitment: The Recruitment-Retention Trade-Off and Organizational Strategies for Membership Growth.” Human Nature Lab (New Haven, CT). Nov., 2016.

“How are music genres perceived and reconstructed in the consumer market?” INSNA Sunbelt Conference (Newport Beach, CA). Apr., 2016.

“How are music genres perceived and reconstructed in the consumer market?” Cornell Sociology Research Symposium (Ithaca, NY). Mar., 2016.

“Studies of Political and Cultural Polarization Using Online Datasets.” Yale Institute for Network Science (New Haven, CT). Nov., 2015.

“Pulp Friction: Book Co-Purchasing Patterns of Conservative and Liberal American.” Brown Bag Series Talk, Department of Sociology, Cornell University. (Ithaca, NY). Nov., 2014.

“Is Greed Good? An Ecological Analysis of Organizational Membership.” American Sociological Association, Mathematical Sociology Section (San Francisco, CA). Aug., 2014.

“Is Greed Good? An Ecological Analysis of Organizational Membership.” Sunbelt Conference (St. Peter, FL). Feb., 2014.

“Network Autocorrelation and Opinion Dynamics,” Graduate Student Mini-conference, Department of Sociology. (Ithaca, NY). 2011.

Teaching Experiences

University of Iowa

- Contemporary Social Problems (undergraduate)
- Data Science for Social Good (undergraduate)
- Social Research Methods: Big Data (graduate)

- Linear Models in Sociological Research (graduate) 2018-.

Renmin University of China

- Big Data in Social Science Research Summer 2019.

Shanghai University

- Introduction to Computational Social Science
- Quantitative Textual Analysis Summer 2019.

Sun Yat-sen University

- Introduction to Computational Social Science Summer 2017.

Professional Service and Activities

Departmental and University Service

- Department Executive Committee. (2019-)
- Computer Committee. (2019-)
- Digital Scholarship and Publishing Studio's Faculty Committee. (2019-2020)

External Service

- Program Committee. 5th International Conference on Computational Social Science. 2019.
- Committee Member: Dissertation-in-Progress Award in Mathematical Sociology, ASA, 2017.
- Occasional Reviewer: *American Journal of Sociology*; *American Sociological Review*; *Chinese Journal of Sociology (Society)*; *IC2S2*; *ICWSM*; *Political Behavior*; *Public Opinion Quarterly*; *Social Forces*; *Social Science Computer Review*; *Social Psychology Quarterly*; *Social Science Research*; *Sociological Forum*; *Sociological Methods and Research*; *The Social Science Journal*.

Consultancy:

- Exposure Promotions Limited, on project *Cruise Mates: The Science*. 2017
- Center of Disease Control (CDC), on project *Respondent Driven Sampling Analysis Tool (RDSAT) Development and SAS Interface*. PI. Douglas Heckathorn. 2013-2015.

Student Advising:

- Qianyi Shi (Dissertation Committee: co-chair)
- SuYeong Shin (Dissertation Committee: member)
- Levi Sands (Master Thesis: member)

References Upon Request