

# Yongren Shi

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<b>Academic Positions</b>	Assistant Professor Department of Sociology, The University of Iowa. Faculty affiliate, Iowa Informatics Initiative.	2018 -
	Post-Doctoral Associate Human Nature Lab, Yale Institute for Network Science, Yale University.	2016 - 2018
<b>Education</b>	Cornell University <i>Ph.D. in Sociology</i> , Committee: Michael W. Macy (Chair), Douglas D. Heckathorn, Edward J. Lawler.	2016
	Huazhong University of Science and Technology <i>Master of Engineering</i> ,	2007
	<i>Bachelor of Engineering</i> ,	2005
<b>Research Interests</b>	Social Networks; Public Opinions; Culture; Organizations; Social Psychology; Computational and Experimental Methods.	
<b>Peer-Reviewed Publications</b>	<b>Shi, Yongren</b> , Chris Cameron and Douglas Heckathorn. 2019. "Model-based and Design-based Inference: Reducing Bias Due to Differential Recruitment in Respondent-Driven Sampling." <i>Sociological Methods and Research</i> vol. 48(1), pages 3-33.	
	<b>Shi, Yongren</b> , Yisook Lim and Chan S. Suh. 2018. "Between Deviation and Innovation: Boundary Crossing and Audience Evaluation in the Music Field." <i>Plos One</i> <a href="https://doi.org/10.1371/journal.pone.0203065">https://doi.org/10.1371/journal.pone.0203065</a>	
	Behler, Rachel, Chan S. Suh, Matthew E. Brashears and <b>Yongren Shi</b> . 2018. "Familiar Faces, Familiar Spaces: Social Similarity and Co-Presence in Non-Relational Behavioral Convergence." <i>Network Science</i> 6(3), 396-429.	

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**, 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.

**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

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).

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

**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 Previous 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 chapter in *Exploring Computational Social Science* (Forthcoming, 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 Sym-*

*posium 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

Digital Humanities Laboratory Corpus Creation Seed Grant, Yale University. \$1500. 2017.

Amazon Web Service in Education Research Grant. \$452. 2015.

National Science Foundation Doctoral Dissertation Research Improvement Grant. "Examining Social Clustering and Division via Patterns of Purchasing and Reviewing." \$11,938. PI: Michael W. Macy, Co-PI: Yongren Shi. 2014.

Graduate School Travel Grants, Cornell University. 2013; 2016.

## Awards and Fellowship

Old Gold Summer Fellowship. University of Iowa. 2019.

Travel Award. Paul and Marcia Wythes Center on Contemporary China, Princeton University. 2018.

Dissertation-in-Progress Award of ASA Mathematical Sociology. 2016.

Outstanding Article Publication Award of ASA Mathematical Sociology. 2016.

Sage Fellowship, Cornell University. 2015-2016; 2007-2009.

Chinese Government Award for Outstanding Students Abroad. \$6,000. 2015.

Winner, Visualization Competition, Department of Sociology, Cornell University. 2015.

Excellent Graduation Thesis Award in Hubei Province, China. 2007.

Complex System Summer School, Santa Fe Institute, at Beijing. 2007.

- Invited (\*) and Professional Presentations (Selected)**
- “Structural Variations of Social Network in Rural Honduras,” Paul and Marcia Wythes Center on Contemporary China, Princeton University (Princeton, NJ). Aug., 2018.
- (\*) “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.
- “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.
- (\*) “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.
- “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, Cornell Sociology. (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

### Instructor

- Contemporary Social Problems  
Social Research Methods: Big Data  
Data Science for Social Good 2019-.
- Computational social science, Sun Yat-Sen University, Guangzhou, China. July, 2017.

### Teaching Assistant

- Introduction to Sociology (Discussion sessions) Fall, 2009; Spring, 2011; Spring, 2012.
- Social Inequality Spring, 2010
- Controversies about Inequalities (Discussion sessions) Fall, 2010; Fall, 2011.

## Professional Services and Activities

Occasional Reviewer: *American Journal of Sociology*; *American Sociological Review*; *Chinese Journal of Sociology (Society)*; *IC2S2*; *ICWSM*; *Public Opinion Quarterly*; *Social Forces*; *Social Science Computer Review*; *Social Science Research*; *Sociological Inquiry*; *Sociological Methods and Research*.

Consultant: for Exposure Promotions Limited, on project *Cruise Mates: The Science*. 2017

Consultant: for Center of Disease Control (CDC), on project *Respondent Driven Sampling Analysis Tool (RDSAT) Development and SAS Interface*. PI. Douglas Heckathorn. 2013-2015.

Committee Member: Dissertation-in-Progress Award in Mathematical Sociology, ASA, 2017.

Program Committee. 5th International Conference on Computational Social Science. 2019.

**References**      Upon Request