

# Weihua An

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## ACADEMIC POSITIONS

- 2017- **Emory University**, Departments of [Sociology](#) and [Data and Decision Sciences](#)  
Professor (2024-); Associate Professor (2019-24); Assistant Professor (2017-19)  
Affiliated Faculty, [The East Asian Studies Program](#)  
Associated Faculty, [The Goizueta Business School](#)  
Joint Faculty, [The Rollins School of Public Health](#)
- 2012-17 **Indiana University**, Assistant Professor of Sociology and Statistics  
(One-year tenure clock pause for children care)  
Affiliated Faculty, IU Network Science Institute  
Affiliated Faculty, Data Science Academic Program, School of Informatics and Computing
- 2011-12 **Harvard University**, Lecturer, Department of Sociology  
Postdoctoral Fellow, Kennedy School of Government (Working with Prof. Bruce Western)

## OTHER POSITIONS

- 2025- Chair, Department of Sociology, Emory University
- 2025- Editor, *Sociological Methodology*, a journal of the American Sociological Association
- 2019-21 Director of Graduate Recruitment, Emory Sociology
- 2016 Visiting Faculty, Institute for Quantitative Theory and Methods, Emory University
- 2015 Visiting Scholar, Institute for Quantitative Social Science, Harvard University

## EDUCATION

Harvard University, Ph.D. in [Sociology](#), 2011; A.M. in [Statistics](#), 2009 (Click see [coursework](#))  
Dissertation: Peer Effects on Adolescent Smoking and Social Network-Based Interventions  
Doctoral Fellow, HKS Multidisciplinary Program in Inequality and Social Policy, 2007-11  
Graduate Associate, Institute for Quantitative Social Science, 2007-11  
Graduate Student Associate, Fairbank Center for Chinese Studies, 2010-11  
GIS Institute Certificate, Center for Geographic Analysis, 2009  
Claremont Graduate University, M.A. in Economics, 2005 (GPA: 3.94/4.0)  
Peking University, M.A. in Political Science, 2002 (Outstanding Graduate)  
Wuhan University, B.A. in Public Administration, 1999 (Outstanding New Student and Graduate)

## RESEARCH INTERESTS & EXPERTISE

Methods: Network Analysis; Causal Inference; Bayesian Analysis  
Applications: Inequality and Social Policy; Health; Organizations  
Software of Proficiency: R, Stata, C,  $\LaTeX$

## PUBLICATIONS (\* Student coauthor)

### *Edited Volumes*

- 2026 **An, Weihua**, Scott Duxbury, David Jacho-Chavez, and Dawn T Robinson. *Causal Network Analysis*. *Social Networks*. (In-progress)
- 2022-23 **An, Weihua** and Shawn Bauldry. *Methodological Advances in Quantitative Social Science*. The *Social Science Research* 50th Anniversary Series (Volumes 107, 108, 109, and 110).
- 2021 **An, Weihua**. *New Quantitative Approaches to Studying Social Inequality*. *Sociological Methods and Research* 50(3).
- 2020 **An, Weihua**, Matthew Brashears, and Cathryn Johnson. *Social Networks and Social Psychology*. *Social Psychology Quarterly* 83(4).

### *Refereed Articles*

- 2025 Jingsong Zhao, Yue Guan, **Weihua An**, Kevin Ward, Colleen M. McBride. "Exploring We-talk as a Relational Measure for Transformation of Motivation in Family Genetic Risk communication." *Social Science and Medicine - Qualitative Research in Health* 8: 100602.
- 2024 **An, Weihua**. "Comparing Egocentric and Sociocentric Centrality Measures in Directed Networks." *Sociological Methods and Research* 53(3): 1290-1318. [Replication]
- Guan, Yue, Colleen M. McBride, Jingsong Zhao, Rebecca D. Pentz, Cam Escoffery, Yuan Liu, Yichun Cao, **Weihua An**, James A. Shepperd, and Kevin C. Ward. "Testing a Population-Based Outreach Intervention for Ovarian Cancer Survivors to Encourage their Close Relatives to Consider Genetic Counseling." *Cancer Epidemiology, Biomarkers & Prevention* 33 (9): 1185-1193.
- 2023 **An, Weihua**. "A Tale of Twin-Dependence: A New Multivariate Regression Model and an FGLS Estimator for Analyzing Outcomes with Network Dependence." *Sociological Methods and Research* 52(4): 1947-1980. [Accompanied R Package]
- Browne, Irene, **Weihua An**, Daniel Auguste, and Natalie D. Deckard. "Race, State Surveillance, and Policy Spillover: Do Restrictive Immigration Policies Affect Citizen Earnings?" *Social Forces* 102(2): 681-705.
- Shao, Iris Yuefan\*, Shakira F. Suglia, **Weihua An**, David Mendez, Viola Vaccarino, and Alvaro Alonso. "Characterization of Trajectories of Physical Activity and Cigarette Smoking from Early Adolescence to Adulthood." *BMC Public Health* 23(1): 2473.
- Allen, Caitlin G.\*, Colleen M. McBride, Cam Escoffery, Yue Guan, Clarissa Hood, Jingsong Zaho, Gene Brody, and **Weihua An**. "Developing and Assessing a Kin Keeping Scale with Application to Identifying Central Influencers in African American Family Networks." *Journal of Community Genetics* 14(6): 593-603.
- 2022 **An, Weihua**, Roberson Beauville\*, and Benjamin Rosche\*. "Causal Network Analysis." *Annual Review of Sociology* 48: 23-41.

- An, Weihua** and Tyler J. VanderWeele. "Opening the Blackbox of Treatment Interference: Tracing Treatment Diffusion through Network Analysis." *Sociological Methods and Research* 51(1): 141-164.
- An, Weihua.** "You Said, They Said: A Framework on Informant Accuracy with Application to Studying Self-Reports and Peer-Reports." *Social Networks* 70: 187-197.
- An, Weihua.** "Friendship Network Formation in Chinese Middle Schools: Patterns of Inequality and Homophily." *Social Networks* 68: 218-228.
- 2021 **An, Weihua** and Adam Glynn. "Treatment Effect Deviation as an Alternative to Blinder-Oaxaca Decomposition for Studying Social Inequality." *Sociological Methods and Research* 50(3): 1006-1033.
- 2019 **An, Weihua** and Bruce Western. "Social Capital in the Creation of Cultural Capital: Family Structure, Neighborhood Cohesion, and Extracurricular Participation." *Social Science Research* 81: 192-208.
- 2018 **An, Weihua.** "Causal Inference with Networked Treatment Diffusion." *Sociological Methodology* 48: 152-181.
- An, Weihua** and Ying Ding. "The Landscape of Causal Inference: Perspective from Citation Network Analysis." *The American Statistician* 72(3): 265-277.
- 2017 **An, Weihua** and Maoliang Ye. "Mind the Gap: Disparity in Redistributive Preference between Political Elites and the Public in China." *European Journal of Political Economy* 50: 75-91.
- An, Weihua** and Yesola Kweon\*. "Do Higher Government Wages Induce Less Corruption? Cross-Country Panel Evidence." *Journal of Policy Modeling* 39(5): 809-826.
- An, Weihua** and Christopher Winship. "Causal Inference in Panel Data with Application to Estimating Race-of-Interviewer Effects in the General Social Survey." *Sociological Methods and Research* 46(1): 68-102. (Special issue on General Social Survey, edited by Michael Hout) [Accompanied Stata Code]
- Yuan, Yue\* and **Weihua An.** "Context, Network, and Adolescent Perceived Risk." *Social Science Research* 62: 378-393.
- 2016 **An, Weihua.** "Fitting ERGMs on Big Networks." *Social Science Research* 59: 107-119. (Special issue on Big Data in the Social Sciences)
- An, Weihua.** "On the Directionality Test of Peer Effects in Social Networks." *Sociological Methods and Research* 45(4): 635-650.
- An, Weihua** and Xuefu Wang\*. "LARF: Instrumental Variable Estimation of Causal Effects through Local Average Response Functions." *Journal of Statistical Software* 71(1): 1-13. [Accompanied R Package]

- An, Weihua** and Yu-Hsin Liu\*. “keyplayer: An R Package for Locating Key Players in Social Networks.” *The R Journal* 8(1): 257-268. [Accompanied R Package]
- 2015 **An, Weihua**. “Instrumental Variables Estimates of Peer Effects in Social Networks.” *Social Science Research* 50: 382-394.
- An, Weihua**. “Multilevel Meta Network Analysis with Application to Studying Network Dynamics of Network Interventions.” *Social Networks* 43: 48-56.
- An, Weihua** and Long Doan\*. “Health Surveillance through Social Networks.” *Social Networks* 42: 8-17.
- An, Weihua** and Sam Schramski\*. “Analysis of Contested Reports in Exchange Networks Based on Actors’ Credibility.” *Social Networks* 40: 25-33. [Accompanied R Code]
- An, Weihua** and William McConnell\*. “The Origins of Asymmetric Ties in Friendship Networks: From Status Differential to Self-perceived Centrality.” *Network Science* 3(2): 269-292.
- Desmond, Matthew and **Weihua An**. “Neighborhood and Network Disadvantage among Urban Renters.” *Sociological Science* 2: 329-350.
- 2013 Desmond, Matthew, **Weihua An**, Richelle Winkler, and Thomas Ferriss. “Evicting Children.” *Social Forces* 92(1): 303-327.
- VanderWeele, Tyler J. and **Weihua An**. “Social Networks and Causal Inference.” Pp. 353-374 in *Handbook of Causal Analysis for Social Research*, edited by Stephen Morgan. New York: Springer. (Invited Paper, Editor-Reviewed)
- 2011 **An, Weihua**. “Models and Methods to Identify Peer Effects.” Pp. 514-532 in *The Sage Handbook of Social Network Analysis*, edited by John Scott and Peter J. Carrington. London: The Sage Publications. (Invited Paper, Editor-Reviewed)
- 2010 **An, Weihua**. “Bayesian Propensity Score Estimators: Incorporating Uncertainties in Propensity Scores into Causal Inference.” *Sociological Methodology* 40: 151-189. (The Clifford Clogg Award from the American Sociological Association for best graduate student paper in methodology) [Accompanied R Package]
- Essays**
- 2023 **An, Weihua** and Shawn Bauldry. “Methodological Advances in Quantitative Social Science: In Celebration of the *Social Science Research* 50th Anniversary.” *Social Science Research* 110: 102843.
- 2021 **An, Weihua**. “Fear Not Scarcity but Inequality, Not Poverty but Instability.” *Sociological Methods and Research* 50(3): 939-943.
- 2020 **An, Weihua**, Matthew Brashears, and Cathryn Johnson. “The Nearness between Us, and the Space within Ourselves.” *Social Psychology Quarterly* 83(4): 315–318.

## **Software and Code (> 150K Downloads)**

- 2023 **An, Weihua.** “**DIDMatch: Combing Difference-in-Difference and Matching for Robust Causal Inference in Panel Data Analysis.**” *Stata Code*. [[Reference Paper](#)]
- 2021 **An, Weihua.** “**fglsnet: A Feasible Generalized Least Squares Estimator for Regression Analysis of Outcomes with Network Dependence.**” An R package available on CRAN. [[Reference Paper](#)] [[Download Count](#)]
- 2015 **An, Weihua and Yu-Hsin Liu\*.** “**keyplayer: Locating Key Players in Social Networks.**” An R package available on CRAN. [[Reference Paper](#)] [[Download Count](#)]
- 2014 **An, Weihua.** “**Credibility: Addressing Contested Reports in Exchange Networks Based on Actors’ Credibility.**” R code to implement the methods proposed in An and Schramski (2015).
- 2013 **An, Weihua and Xuefu Wang\*.** “**LARF: Local Average Response Functions for Instrumental Variable Estimation of Treatment Effects.**” An R package available on CRAN. [[Reference Paper](#)] [[Download Count](#)]
- An, Weihua, Huizi Xu\*, and Zhida Zheng\*.** “**IUPS: Incorporating Uncertainties in Propensity Scores.**” An R package available on CRAN. [[Reference Paper](#)] [[Download Count](#)]

## **INVITED PRESENTATIONS**

- 2025 **Harvard University, Department of Sociology, THINKING TOGETHER: An Event in Recognition of Christopher Winship’s Formal Retirement from Harvard**
- 2024 **University of Washington, The 25th anniversary celebration conference of the Center for Statistics and the Social Sciences**
- 2023 **Centers for Disease Control and Prevention, The R Users Group Meeting**  
**Georgia State University, The 8th Workshop on Biostatistics and Bioinformatics**  
**University of Hong Kong, The Population and Health Seminar**  
**Chinese University of Hong Kong, The Computational Social Science Seminar**
- 2022 **University of Georgia, Department of Statistics Colloquium**  
**The New England Statistics Symposium**  
**Renmin University of China, School of Public Management**
- 2021 **Peking University, School of Government, The 20th Anniversary Seminar Series**  
**University of Chinese Academy of Social Sciences, School of Government**  
**South China Normal University, School of Political Science and Public Management**  
**University of Washington, Center for Statistics and the Social Sciences**  
**Princeton University, The China Workshop**

- Facebook**, The Computational Social Science Group
- Penn State University**, Center for Social Data Analytics
- 2020 **Harvard University**, The Applied Statistics Workshop
- Yale University**, Department of Biostatistics
- Emory University**, The China Colloquium
- Renmin University of China**, The Institute of Statistics and Big Data Seminar
- Southwestern University of Finance and Economics (China)**, School of Social Development
- 2019 **Emory University**, The Summer Institute on Empirical Implications of Theoretical Models
- Emory University**, The China Colloquium
- Emory University**, GROW (Global Research for Women) Seminar Series
- The Carter Center and Emory University**, The International Symposium
- 2018 **Emory University**, Department of Biostatistics and Bioinformatics Seminar
- Emory University**, The China Colloquium
- Emory University**, Department of Biostatistics and Bioinformatics Seminar
- University of Georgia**, Sociology Colloquium and Workgroup on Computational Social Science
- University of Georgia**, School of Public and International Affairs
- 2017 **University of Georgia**, Department of Statistics
- Duke Network Analysis Center**, Social Networks and Health Workshop
- Indiana University**, Department of Sociology, Politics, Economics, and Culture Workshop
- 2016 **Emory University**, Department of Sociology and Institute for Quantitative Theory and Methods
- Purdue University**, Social Science Methodology Symposium
- University of Louisville**, Department of Bioinformatics and Biostatistics Colloquium
- Emory University**, Institute for Quantitative Theory and Methods
- University of Chicago**, Department of Sociology Colloquium
- Indiana University**, School of Informatics and Computing
- University of Chicago**, Booth School of Business, Econometrics and Statistics Workshop
- 2015 **Harvard University**, Department of Biostatistics, Seminar on Statistical Methods in Epidemiology
- Harvard University**, Workshop in Economics of Science and Engineering
- The Harvard-MIT-BU Chinese Politics Research Workshop**
- Harvard University**, Department of Biostatistics, Big Data Seminar

- Harvard University, Department of Sociology, The Urban Social Processes Workshop  
 New England Symposium on Statistics in Sports at Harvard University.  
 Harvard University, Department of Sociology, Quantitative Methods in Sociology Workshop  
 Harvard University, Department of Economics, The China Economy Seminar  
 Indiana University, Department of Psychology, Social Psychology Seminar
- 2014 Duke University, Seminar of the Duke Network Analysis Center  
 Duke University, Department of Sociology Colloquium  
 Indiana University, Department of Information and Library Science Colloquium  
 Indiana University, Workshop in Methods
- 2013 Indiana University, Themester Social Science Network Workshop  
 Indiana University, Department of Sociology, Politics, Economics, and Culture Workshop  
 National Opinion Research Center, Workshop on General Social Survey  
 Indiana University, The Ostrom Workshop in Political Theory and Policy Analysis
- 2011 Indiana University, Departments of Sociology and Statistics  
 Harvard University, Institute for Quantitative Social Science, Applied Statistics Workshop  
 Harvard School of Public Health, Department of Global Health and Population  
 University of Massachusetts at Boston, Department of Public Policy and Public Affairs  
 Harvard University, Chinese Politics Research Workshop  
 Duke University, Department of Sociology
- 2009 Harvard University, The Applied Statistics Workshop

## TEACHING (Graduate courses marked in bold)

### *Emory University*

- QTM 220: Regression Analysis (Required course for QTM majors)  
 QTM 385/SOC 508: Advanced Network Analysis  
 SOC 201: Organizations and Society (Foundational course for sociology majors)  
**BSHES 760R: Training in Advanced Data Analytics (An NIH-funded multidisciplinary doctoral seminar)**

### *Indiana University*

- Statistics 681/Sociology 651: Social Network Analysis**  
**Statistics 681: Statistical Methods for Causal Inference**  
**Statistics 501: Statistical Methods I: Linear Regressions**  
 Statistics 481: Statistics and Networks  
 Sociology 210: Economy, Organizations, and Work

## ***Harvard University***

- 2012 Introduction to Sociology of Organizations, Lecturer
- 2011 Social Network Analysis: Theory, Methods and Applications, Lecturer
- 2010 **Qualifying Paper Seminar**, Teaching Fellow for Robert Sampson  
Political Sociology, Teaching Fellow for Matthew Baggetta
- 2009 **Advanced Quantitative Methods**, Teaching Fellow for Christopher Winship
- 2008-09 Medicine and Disease in Social Context, Teaching Fellow for Nicholas Christakis
- 2008 Leadership and Organizations, Teaching Fellow for David Ager

## **ADVISING**

### ***Dissertation Committees (\* Chaired or Co-chaired)***

- Current: Temi Alao, Sociology; Anqi Hu\*, Sociology
- 2025 Roberson Beauville\*, Sociology  
Pablo Estrada, Economics
  - 2024 Sara Kaplan, Business  
Joni Webster, Sociology  
Jiaxuan Yu, Sociology  
Jingsong Zhao, Public Health
  - 2023 Alexandra Manta, Economics
  - 2022 Brian Kim, Business  
Tricia Lewis, Sociology  
Iris Shao, Public Health  
Dimitri Zaras, Sociology
  - 2021 Caitlin Allen, Public Health  
John Pothen, Sociology
  - 2020 Ju Hyun Park, Sociology  
Allison Roberts, Sociology
  - 2019 Wynand Kastart, Political Science, IU (Department Outstanding Dissertation Award)  
Yeon Hak Kim, Public Policy, Georgia Tech  
Trent Ryan, Sociology
  - 2018 Alexander Antony, Political Science, IU
  - 2017 Hyesong Ha, Public Affairs, IU

Jian Li, Education, IU

HuiGuo Liu, Sociology, IU

Onur Varol, Informatics, IU (IU Distinguished Dissertation Award)

Juha Yoon, Public Health, IU

2016 Josef Woldense, Political Science, IU

Yue Yuan, Criminology, IU

2015 Tait Medina, Sociology, IU

***Undergraduate Honors Thesis Committees (\* Chaired or Co-chaired)***

2024 Wenqi (Vicky) Ge, QSS/Psychology, Highest Honors

Xinyi (Melinda) Zhang, QSS/Linguistics, Highest Honors

2023 Leng Seong Che\*, QSS/Sociology, Highest Honors

Senna (Su Hyun) Kim, QSS/Psychology, Highest Honors

Joyce Wang, QSS/Psychology, Highest Honors

2022 Nicholas Skelley, Economics, Highest Honors

2021 Cayleigh Jackson, International Studies, Highest Honors

Olivia Song\*, QSS/Informatics, Highest Honors

Yuwei Wu, Applied Math and Statistics, Highest Honors

2020 Mia Jin, QSS/Psychology, Highest Honors

***Number of Students I have written Recommendation Letters for: 80***

**EDITORIAL WORK**

2024 *Social Psychology Quarterly*, Editorial Board

2021-23 *Sociological Methodology*, Editorial Board

2020- *Journal of Machine Learning Research*, Editorial Board

2019- *Social Science Research*, Editorial Board

2017- *Sociological Methods and Research*, Editorial Board

2017-19 *American Sociological Review*, Editorial Board

**REVIEW WORK**

**Methodological Journals:** *American Statistician; Annual of Statistics; Field Methods; Journal of the American Statistical Association; Journal of Computational and Graphical Statistics; Journal of Machine Learning Research; Sociological Methodology; Sociological Methods and Research; Statistics in Medicine; Statistica Sinica; Journal of Educational and Behavioral Statistics; Journal of Statistical Software; Survey Research Methods*

**Substantive Journals:** *American Journal of Sociology; American Political Science Review; American Sociological Review; Demography; Epidemiology; Journal of Adolescent Health; PLOS ONE; PNAS; Public Administration Review; Science Advances; Social Forces; Social Networks; Social Problems; Social Science and Medicine; Social Science Research; Sociological Spectrum; Sociological Studies (In Chinese); Socius*

**Books:** Cambridge University Press (Two); CHAPMAN & HALL/CRC; SAGE (Six); Springer.

**Tenure & Promotions:** Six top universities

**Prestigious Award:** MacArthur Foundation