

# Peng Huang

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## EMPLOYMENT

2024– Assistant Professor, Department of Sociology, University of Georgia  
*Faculty Affiliate, Owens Institute for Behavioral Research*

## EDUCATION

2024 Ph.D. Sociology, University of California, Irvine  
2023 M.S. Statistics, University of California, Irvine  
2018 B.A. Sociology & B.A. Economics, Peking University

## AREAS OF INTEREST

Migration, Social Networks, Inequality, Population Health, Spatial Demography, Global and Transnational Sociology, Mathematical Sociology, Statistical and Computational Methodology

## PEER-REVIEWED PAPERS

**Huang, Peng**, Zack W. Almquist, Carter T. Butts. 2025. “Endogenous competition and the underrealized reproduction of infectious diseases.” *Proceedings of the National Academy of Sciences (PNAS)*, 122(23):e2502676122.

**Huang, Peng**, Carter T. Butts. 2024. “California Exodus? A Network Model of Population Redistribution in the United States.” *Journal of Mathematical Sociology*, 48(3):311-339.

**Huang, Peng**, Carter T. Butts. 2024. “Parameter Estimation Procedures for Exponential-Family Random Graph Models on Count-Valued Networks: A Comparative Simulation Study.” *Social Networks*, 76:51-67.

- Outstanding Publication Award Honorable Mention, Methodology Section, American Sociological Association (ASA)
- Outstanding Graduate Student Paper Award Honorable Mention, ASA Mathematical Sociology Section

Thomas, Loring J., **Peng Huang**, Xiaoshuang Luo, John R. Hipp, Carter T. Butts. 2024. “Marginal-preserving Imputation of Three-way Array Data in Nested Structures, with Application to Small Areal Units.” *Sociological Methodology*, 54(1):157-191.

**Huang, Peng**, Carter T. Butts. 2023. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” *American Sociological Review*, 88(6):1031-1065.

- Outstanding Article Publication Award, ASA Mathematical Sociology Section

- James S. Coleman Outstanding Article Award Honorable Mention, ASA Decision-Making, Social Networks, and Society Section
- Best Student Paper Award, International Network for Social Network Analysis (INSNA)
- Best Paper Award, U.S.-Japan Joint Conference on Mathematical Sociology and Rational Choice

Thomas, Loring J., **Peng Huang**, Fan Yin, Junlan Xu, Zack W. Almquist, John R. Hipp, Carter T. Butts. 2022. “Geographical Patterns of Social Cohesion Drive Disparities in COVID Infection Hazard.” *Proceedings of the National Academy of Sciences (PNAS)*, 119(12):e2121675119.

Thomas, Loring J., **Peng Huang**, Fan Yin, Xiaoshuang Luo, Zack W. Almquist, John R. Hipp, Carter T. Butts. 2020. “Spatial Heterogeneity Can Lead to Substantial Local Variations in COVID-19 Timing and Severity.” *Proceedings of the National Academy of Sciences (PNAS)*, 117(39):24180-24187.

## UNDER REVIEW

**Huang, Peng**. “Joint Destiny? Mapping Political Polarization through Demographic Decomposition.” Revise & resubmit. *Demography*.

**Huang, Peng**. “Micro-Macro Analysis of Network Change.”

Khuu, Thoa V., James D. Bachmeier, Jennifer Van Hook, **Peng Huang**. “Dispersed Settlement, Diverging Paths: The Uneven Geography of Second-generation Educational Attainment.”

Thomas, Jacob and **Peng Huang**. “Cultural Affinities and Political-economic Inequalities in the Global Visa-Free Mobility Networks, 1969-2010.”

## WORKING PAPERS

**Huang, Peng**, Jacob Thomas. (*equal authorship*). “The Strengths and Challenges of Cross-Cultural Collaborative Field Research.”

**Huang, Peng**, Elizabeth M. Diessner, Carter T. Butts. “Motional Degrees of Freedom in Network Hamiltonian Models.”

Wu, Qiong, **Peng Huang**, and Chunni Zhang. “The Paradox of Subjective Social Status of Migrants in China.”

## INVITED TALKS

2026        TBD. Innovations in Population Science Seminar Series.  
*Cornell Population Center, Cornell University (scheduled)*

2025        “Social Network Analysis: What, Why and How?” Guest Workshop for Doctor of Business Administration Program.

*Robinson College of Business, Georgia State University*

- 2025 “Does Political Polarization Reduce Internal Migration in the U.S.? A Temporal Network Analysis.” Workshop on Causal Network Analysis.  
*Departments of Data and Decision Sciences, Economics, & Sociology, Emory University*
- 2025 “Cultural Affinities and Political-economic Inequalities in the Global Visa-Free Mobility Networks, 1969-2010.” (with Jacob Thomas) Guest Lecture for Social Network Analysis Graduate Seminar.  
*Department of Sociology & Anthropology, University of Texas, El Paso*
- 2024 “Social Network Analysis.” Guest Lecture for Research Methods Course.  
*Department of Sociology, City College of New York, City University of New York*  
*Department of Sociology, Yeshiva University*
- 2024 “Immobilization of Population Flow Networks.”  
*Department of Sociology, Peking University*
- 2023 “Rooted America: Immobility and Segregation of the Intercounty Migration Network.”  
*Department of Sociology, University of Southern California (canceled)*  
*Department of Sociology & Institute for Social Research and Data Innovation (ISRDI), University of Minnesota, Twin Cities*  
*Department of Sociology, University of Georgia*
- 2017 “The Advantages and Challenges of Conducting Bicultural Collaborative Ethnography.” (with Jacob Thomas)  
*Irene Flecknoe Ross Lecture Series Ethnography Working Group, Department of Sociology, UCLA*
- 2017 “Family Matters, But Most of All Not in the Way Most International Migration Scholars Think.” (with Jacob Thomas)  
*The Family Working Group, Department of Sociology, UCLA*

## SELECTED CONFERENCE PRESENTATIONS

- Huang, Peng.** 2025. “Joint Destiny? Mapping Political Polarization through Demographic Decomposition.” Annual Meeting of the American Sociological Association (ASA), Chicago, IL.
- Huang, Peng, Zack W. Almquist, and Carter T. Butts.** 2025. “Endogenous Competition and the Underrealized Diffusion in Social Networks.” ASA Methodology Section Midyear Meeting, Philadelphia, PA; Sunbelt Network Conference (INSNA), Paris, France; ASA Annual Meeting, Chicago, IL.

- Thomas, Jacob, **Peng, Huang**. 2025. “Why Do Most Potential Migrants Never Migrate? Advancing a New Survey Design for Testing Selectivity Theory and a Push-Retain-Pull-Repel Model for International Migration.” Annual Meeting of the Population Association of America (PAA), Washington, D.C.
- Huang, Peng**, and Carter T. Butts. 2024. “California Exodus? A Network Model of Population Redistribution in the United States.” PAA Annual Meeting, Columbus, OH.
- Thomas, Jacob and **Peng Huang**. 2023. “Affinity and Inequality in the Global Structure of the Visa-Free Mobility Network.” Annual Meeting of the American Political Science Association (APSA), Los Angeles, CA; Globalization Section, ASA Annual Meeting, Philadelphia, PA; PAA Annual Meeting, New Orleans, LA.
- Huang, Peng**, and Carter T. Butts. 2023. “Unraveling the California Exodus Using Network-based Models of the U.S. Internal Migration System.” ASA Annual Meeting, Philadelphia, PA; Sunbelt Network Conference, Portland, OR.
- Huang, Peng**, and Carter T. Butts. 2022. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” ASA Annual Meeting, Los Angeles, CA; PAA Annual Meeting, Atlanta, GA.
- Thomas, Loring, **Peng Huang**, Xiaoshuang Iris Luo, John R. Hipp and Carter T. Butts. 2022. “Marginal-preserving Imputation of Three-way Array Data in Nested Structures, with Application to Small Areal Units.” ASA Annual Meeting, Los Angeles, CA, August.
- Thomas, Loring J., **Peng Huang**, John R. Hipp, and Carter T. Butts. 2022. “Extending Spatial Bernoulli Graphs with Node Covariate Information.” Sunbelt Network Conference, Cairns, Australia, July.
- Huang, Peng**, and Carter T. Butts. 2021. “Estimation of Exponential-family Random Graph Models for Valued Networks: A Comparative Simulation Study.” Computational Sociology Section, ASA Annual Meeting, Virtual; North America Social Network Conference (NASN), Virtual.
- Huang, Peng**, and Carter T. Butts. 2020. “The Networks of Intercounty Migration Flows in the U.S.” Internal Migration Section, ASA Annual Meeting, Virtual, August.
- Huang, Peng**, and Jacob Thomas. 2020. “The Strengths and Challenges of Cross-cultural Collaborative Field Research of Families and International Migration.” Evaluation of Qualitative Methods Section, ASA Annual Meeting, Virtual.
- Huang, Peng**, and Carter T. Butts. 2020. “Modeling the Network of Intercounty Migration Flows in the U.S. Using Dynamic Valued ERGMs.” Sunbelt Network Conference, Virtual.
- Thomas, Loring J., **Peng Huang**, Xiaoshuang Luo, John R. Hipp, Carter T. Butts. 2020. “Estimating Inhomogeneous Spatial Interaction Functions for Spatial Network Simulation” Sunbelt Network Conference, Virtual.

Wu, Qiong, **Peng Huang**, and Chunni Zhang. 2018. “The Paradox of Subjective Social Status of Migrants in China” Joint Conference for Family (RC06) and Population (RC41) of the International Sociological Association (ISA), Singapore; PAA Annual Meeting, Denver, CO.

Thomas, Jacob and **Peng Huang**. 2017. “Family Matters, But Most of All Not in the Way Most International Migration Scholars Think.” ASA Annual Meeting, Montreal, QC, August.

## TEACHING

### Instructor at the University of Georgia

Grad           SOCI8650: Network Analysis

Undergrad   SOCI3580: Research Methods

### Teaching Assistant at the University of California, Irvine

Grad           Soc226/PubHlth209: Methods of Demographic Analysis

Undergrad   SocSci3: Computer-based Research in Social Sciences

Undergrad   Soc2: Global and Transnational Sociology

Undergrad   Soc138/Econ148: Business Decisions

## ADVISING

In progress   Alyson Gonzalez (Master’s Thesis Committee, UGA Sociology)

## HONORS AND AWARDS

### Extramural

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| 2025 | Outstanding Article Publication Award, Mathematical Sociology Section, American Sociological Association (ASA)          |
| 2025 | James S. Coleman Outstanding Article Award Honorable Mention, ASA Decision-Making, Social Networks, and Society Section |
| 2024 | Best Student Paper Award, International Network for Social Network Analysis (INSNA)                                     |
| 2024 | Outstanding Publication Award Honorable Mention, ASA Methodology Section  |
| 2024 | Outstanding Graduate Student Paper Award Honorable Mention, ASA Mathematical Sociology Section                          |
| 2023 | Conference Accelerator Grant, Institute for Humane Studies  |
| 2023 | Student Travel Award, Sunbelt Network Conference, INSNA   |
| 2022 | Geoffrey Tootell Dissertation-in-progress Award, ASA Mathematical Sociology Section                                     |
| 2022 | Best Paper Award, U.S.-Japan Joint Conference on Mathematical Sociology and Rational Choice                             |

## **University of California, Irvine**

- 2024 Outstanding Research Award, Department of Sociology
- 2021-2023 Summer Research Grant, Department of Sociology
- 2021,2023 Conference Travel Grant, Associated Graduate students
- 2018 Dean's Recruitment Fellowship, School of Social Sciences

## **DISCIPLINARY SERVICE**

### **American Sociological Association**

- 2026 Member, Outstanding Article Publication Award Committee, Mathematical Sociology Section
- 2025 Roundtable Presider, Urban Sociology Section, Annual Meeting
- 2025 Member, Graduate Student Paper Award Committee, Decision-Making, Social Networks, and Society Section
- 2024 Mentor, Mathematical Sociology Mentoring Program
- 2024 Mentor, Sociology of Population Mentoring Program

### **International Network for Social Network Analysis**

- 2025 Member, Best Student Paper Award Committee

**Occasional Referee:** *American Journal of Sociology, American Sociological Review, Chinese Sociological Review, Demography, Journal of Mathematical Sociology, Journal of the Royal Statistical Society: Series A, Social Forces, Sociological Methodology, Sociological Methods & Research, Statistica Sinica*

## **UNIVERSITY SERVICE**

### **University of Georgia**

- 2025-2026 Colloquium Committee, Department of Sociology
- 2024-2025 Faculty Recruitment Committee, Department of Sociology

### **University of California, Irvine**

- 2023-2024 Workshop Planning Committee, Center for Networks and Relational Analysis
- 2021-2023 Peer Mentor, Sociology Graduate Student Association
- 2021-2022 Co-founder, Graduate-student Brown-bag Seminar Series, Department of Statistics

## **AFFILIATIONS AT THE UNIVERSITY OF GEORGIA**

Faculty Affiliate, Owens Institute for Behavioral Research

Faculty Affiliate, Center for the Ecology of Infectious Diseases

Member, Computational Social Science Work Group

Member, Social and Behavioral Dynamics of Health, Well-Being, and Security Initiative

## **PROFESSIONAL MEMBERSHIPS**

American Sociological Association (ASA)

American Political Science Association (APSA)

International Network of Social Network Analysis (INSNA)

Population Association of America (PAA)

## **REFERENCES**

Available upon request