

# 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

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

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

## 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

2025 “Cultural Affinities and Political-economic Inequalities in the Global Visa-Free Mobility Networks, 1969-2010.” for Social Network Analysis Seminar (with Jacob Thomas)  
*Department of Sociology & Anthropology, University of Texas, El Paso*

2024 “Social Network Analysis” 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*
- 2022 Data@UCI Graduate School Panel  
*School of Information and Computer Sciences, UC Irvine*
- 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. “Spatial Demography of Political Polarization in the United States 1980-2020.” 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; Annual Meeting of the American Sociological Association (ASA), 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.” Annual Meeting of the Population Association of America (PAA), 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, Annual Meeting of the American Sociological Association (ASA), Philadelphia, PA; Annual Meeting of the Population Association of

America (PAA), 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.” Annual Meeting of the American Sociological Association (ASA), Philadelphia, PA; Sunbelt Network Conference (INSNA), Portland, OR.

**Huang, Peng**, and Carter T. Butts. 2022. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” Annual Meeting of the American Sociological Association (ASA), Los Angeles, CA; Annual Meeting of the Population Association of America (PAA), 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.” Annual Meeting of the American Sociological Association (ASA), 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 (INSNA), 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, Annual Meeting of the American Sociological Association (ASA), 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, Annual Meeting of the American Sociological Association (ASA), 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, Annual Meeting of the American Sociological Association (ASA), 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 (INSNA), 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 (INSNA), 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; Annual Meeting of the Population Association of America (PAA), Denver, CO.

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

Association (ASA), Montreal, QC, August.

## **TEACHING**

### **Instructor at the University of Georgia**

Grad           SOCI8650: Social 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**

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**

2025            Roundtable Presider, Annual Meeting of the American Sociological Association  
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, Chinese Sociological Review, Demography, Journal of Mathematical Sociology, Journal of the Royal Statistical Society: Series A, Sociological Methodology, Sociological Methods & Research, Stat, Statistica Sinica*

## **UNIVERSITY SERVICE**

### **University of Georgia**

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

Member, Computational Social Science Work Group

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

Faculty Affiliate, Center for the Ecology of Infectious Diseases

## **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