

# 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
- Outstanding Graduate Student Paper Award Honorable Mention, Mathematical Sociology Section, American Sociological Association

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, Mathematical Sociology Section, American Sociological Association
- James S. Coleman Outstanding Article Award Honorable Mention, Decision-Making, Social Networks, and Society Section, American Sociological Association
- 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.”

## 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 EXPERIENCE

### Instructor at University of Georgia

Undergrad    SOCI3580: Research Methods

### Teaching Assistant at 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

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

### University of California, Irvine

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| 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

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| 2025 | Roundtable Presider, Annual Meeting of the American Sociological Association |
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- 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