

# Peng Huang

Department of Sociology  
University of California, Irvine

Email: [peng.huang@uci.edu](mailto:peng.huang@uci.edu)  
Homepage: [www.penghuang.me](http://www.penghuang.me)

## EMPLOYMENT

Assistant Professor, Department of Sociology, University of Georgia 2024-

## EDUCATION

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

## 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**, 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.

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.

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.

## WORKING PAPERS

Thomas, Jacob and **Peng Huang**. “Affinity and Inequality in the Global Structure of the Visa-Free Mobility Network.”

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

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

## INVITED TALKS

November 2023. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” Department of Sociology, University of Southern California. Los Angeles, CA. (canceled).

October 2023. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” Department of Sociology & Institute for Social Research and Data Innovation (ISRDI), University of Minnesota, Twin Cities.

October 2023. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” Department of Sociology, University of Georgia. Athens, GA.

October 2022. Data@UCI Graduate School Panel. School of Information and Computer Sciences, UC Irvine. Irvine, CA.

January 2017. (with Jacob Thomas). “The Advantages and Challenges of Conducting Bicultural Collaborative Ethnography.” Irene Flecknoe Ross Lecture Series Ethnography Working Group, Department of Sociology, UCLA. Los Angeles, CA.

January 2017. (with Jacob Thomas). “Family Matters, But Most of All Not in the Way Most International Migration Scholars Think.” The Family Working Group, Department of Sociology, UCLA. Los Angeles, CA.

## SELECTED CONFERENCE PRESENTATIONS

**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**. 2024. “Affinity and Inequality in the Global Structure of the Visa-Free Mobility Network, 1969-2010.” 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; 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, Jacob and **Peng Huang**. 2022. “Affinity and Inequality in the Global Structure of the Visa-Free Mobility Network.” Annual Meeting of the American Sociological Association (ASA), Los Angeles, CA; Sunbelt Network Conference (INSNA), Cairns, Australia.

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.

Thomas, Loring J., **Peng Huang**, Fan Yin, Xiaoshuang Luo, John R. Hipp, and Carter T. Butts. 2021. “Rising Floodwaters: Spatial Social Network Effects on COVID-19 Outcomes by Race and Ethnicity.” Social Networks 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

Soci3580: Research Methods in Sociology (Undergrad-level) Fall 2024

### Teaching Assistant at University of California, Irvine

Soc226/PubHlth209: Methods of Demographic Analysis (Grad-level) Fall 2022

SocSci3: Computer-based Research in Social Sciences (Undergrad-level) Spring 2023

Soc2: Global and Transnational Sociology (Undergrad-level) Fall 2021

Soc138/Econ148: Business Decisions (Undergrad-level) Winter 2019,2021

## FELLOWSHIPS AND AWARDS

### Extramural

Conference Accelerator Grant, Institute for Humane Studies 2023

Student Travel Award, Sunbelt Network Conference, INSNA 2023

Geoffrey Tootell Dissertation-in-progress Award in Mathematical Sociology, ASA 2022

Best Paper Award, U.S.-Japan Joint Conference on Math Sociology and Rational Choice 2022

### University of California, Irvine

Outstanding Research Award, Department of Sociology 2024

Summer Research Grant, Department of Sociology 2021-2023

Conference Travel Grant, Associated Graduate Students 2021,2023

Dean’s Recruitment Fellowship, School of Social Sciences 2018

## SERVICE

### University of California, Irvine

Workshop Planning Committee, Center for Networks and Relational Analysis 2024

Peer Mentor, Sociology Graduate Student Association 2021-2023  
Co-founder, Graduate-student Brown-bag Seminar Series, Department of Statistics 2021-2022

### **Discipline**

Mentor, Mathematical Sociology Mentoring Program, American Sociological Association 2024

Occasional Referee: *Demography*, *Journal of Mathematical Sociology*, *Sociological Methodology*

### **REFERENCES**

Available upon request