

# Peng Huang

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## EDUCATION

Ph.D. Sociology, University of California, Irvine (expected) 2024

- *Dynamics of Population Flow Networks* (Chair: Carter T. Butts)
- Dissertation-in-progress Award in Mathematical Sociology, ASA

M.S. Statistics, University of California, Irvine (expected) 2023

B.A. Sociology & B.A. Economics, Peking University 2018

## AREAS OF INTEREST

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

## UNDER REVIEW

**Huang, Peng**, Carter T. Butts. “*Rooted America: Immobility and Segregation of the Inter-County Migration Networks*.” Second R&R. *American Sociological Review*.

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

**Huang, Peng**, Carter T. Butts. “California Exodus? A Network Model of Population Redistribution in the United States.” R&R. *Journal of Mathematical Sociology*.

## PEER-REVIEWED PAPERS

**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. In press. “Marginal-preserving Imputation of Three-way Array Data in Nested Structures, with Application to Small Areal Units.” *Sociological Methodology*.

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.”

## SELECTED CONFERENCE PRESENTATIONS

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 Inter-County Migration Networks.” 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 Inter-County 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 Inter-County 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.

## INVITED TALKS

- 2022 Data@UCI Graduate School Panel, UC Irvine School of Information and Computer Sciences, Irvine, CA.
- Huang, Peng** and Jacob Thomas. 2017. "The Advantages and Challenges of Conducting Bicultural Collaborative Ethnography." Irene Flecknoe Ross Lecture Series Ethnography Working Group, UCLA Department of Sociology, Los Angeles, CA.
- Thomas, Jacob and **Peng Huang**. 2017. "Family Matters, But Most of All Not in the Way Most International Migration Scholars Think." The Family Working Group, UCLA Department of Sociology, Los Angeles, CA.

## OTHER RESEARCH EXPERIENCE

- Research Assistant for Dr. Biao Xiang (Oxford, Max Planck) 2018
- Studied Beijing's eviction programs towards floating population in history and at present

- Collected government documents and official reports to reveal the logic behind policy design

Research Assistant for Dr. Yinxian Zhang (CUNY) and Dr. Xi Song (UPenn) 2018

- Studied media coverage and public perceptions of inequality in China
- Coded media reports and cleaned data for sentiment analysis using machine learning

Research Assistant for Dr. Jacob Thomas (CUHK) 2016,2018

- Studied how states and family deter people from emigrating
- Conducted 103 in-depth interviews with informants interested in but deciding not migrating

## TEACHING EXPERIENCE

### Teaching Assistant at University of California, Irvine

#### *Graduate Course*

Soc226/PubHlth209: Methods of Demographic Analysis (Dr. Andrew Noymer) Fall 2022

#### *Undergraduate Courses*

SocSci3: Computer-based Research in Social Sciences (Dr. Paul Morgan) Spring 2023

Soc2: Global and Transnational Sociology (Dr. Evan Schofer) Fall 2021

Soc138/Econ148: Business Decisions (Dr. Carter Butts) Winter 2019,2021

## FELLOWSHIPS AND AWARDS

### Extramural

Conference Accelerator Grant, Institute for Humane Studies, George Mason University 2023

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

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

### Peking University

Robin Li Scholarship, Department of Sociology 2016-2017

Tan Siu Lin Oversea Exchange Fellowship, National School of Development Summer 2017

Outstanding Research Award, Department of Sociology 2015-2016

Xinhe Overseas Study Scholarship, Office of International Relations Summer 2015

May 4th Scholarship, Department of Sociology 2014-2015

## **SERVICE**

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

Peer Mentor, Sociology Graduate Student Association

2021-2023

Coordinator, Inaugural Brown-Bag Seminar Series, Department of Statistics

2021-2022

### **Discipline**

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