

# Peng Huang

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## EDUCATION

### University of California, Irvine

Ph.D in Sociology (expected) 2024

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

M.S. in Statistics (expected) 2023

M.A. in Sociology 2021

### Peking University

B.A. in Sociology (*with honors*) 2018

B.A. in Economics 2018

## AREAS OF INTEREST

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

## PEER-REVIEWED PAPERS

Thomas, Loring J., **Peng Huang**, Xiaoshuang Luo, John R. Hipp, Carter T. Butts. forthcoming. “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.

## UNDER REVIEW/PREPRINTS

**Huang, Peng**, Carter T. Butts. “**Rooted America: Immobility and Segregation of the Inter-County Migration Networks.**” arXiv:2205.02347. 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. “**Parameter Estimation Procedures for Exponential-Family Random Graph Models on Count-Valued Networks: A Comparative Simulation Study.**” arXiv:2111.02372. Conditional acceptance. *Social Networks*.

**Huang, Peng**, Carter T. Butts. “California Exodus? A Network Model of Population Redistribution in the United States.” Under review.

## WORKING PAPERS

Thomas, Jacob and **Peng Huang**. 2023. “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*