

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, Demography, Inequality, Mathematical Sociology, Methodology

PEER-REVIEWED PAPERS

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* 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* 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

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

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

WORKING PAPERS

Thomas, Loring J., **Peng Huang**, Xiaoshuang Luo, John R. Hipp, Carter T. Butts. “Imputation of Three-Way Crosstab Data with Simulated Annealing.”

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

CONFERENCE PRESENTATIONS

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, August.

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, August.

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, Jacob and **Peng Huang**. 2022. “Homophily and Hierarchy of the International Visa-Free Mobility Network.” Sunbelt Network Conference (INSNA), Cairns, Australia, July.

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. 2022. “Rooted America: Immobility and Segregation of the Inter-County Migration Networks.” Annual Meeting of the Population Association of America (PAA), Atlanta, GA, April.

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, August.

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, August.

Huang, Peng, and Carter T. Butts. 2021. “Estimation of Count-data Exponential-Family Random Graph Models (ERGMs).” North America Social Network Conference (NASN), Virtual, January.

Thomas, Loring J., **Peng Huang**, Xiaoshuang Luo, John R. Hipp, Carter T. Butts. 2020. “Examining the Effect of COVID-19 Diffusion on Spatial Networks to Understand Ethnoracial Disparities in Disease Outcomes.” North America Social Network Conference (NASN), Virtual, January.

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, August.

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, June.

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, June.

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, May; Annual Meeting of the Population Association of America (PAA), Denver, CO, April.

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

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

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, Los Angeles, CA, January.

OTHER RESEARCH EXPERIENCE

Research Assistant for 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 Yinxian Zhang (CUNY) and 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 Jacob Thomas (Princeton) 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

Soc2: Global and Transnational Sociology (Prof. Evan Schofer)	Fall 2021
Soc138/Econ148: Business Decisions (Prof. Carter Butts)	Winter 2019,2021

FELLOWSHIPS AND AWARDS

American Sociological Association

Geoffrey Tootell Dissertation-in-progress Award in Mathematical Sociology	2022
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University of California, Irvine

Summer Research Grant, Department of Sociology	2021
Virtual Conference Grant, Associated Graduate Students	2021
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

Coordinator, Inaugural Brown-Bag Seminar Series, Department of Statistics	2021-2022
Peer Mentor, Sociology Graduate Student Association	2021-2022