

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, 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.

- 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.”

Huang, Peng, Zack W. Almquist, Carter T. Butts. “Endogenous competition and the under-realized reproduction of infectious diseases.”

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

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 (virtual)

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

- 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**, 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

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

2024 Best Student Paper Award, International Network for Social Network Analysis (INSNA)
2024 Outstanding Publication Award Honorable Mention, Methodology Section, American Sociological Association
2024 Outstanding Graduate Student Paper Award Honorable Mention, Mathematical Sociology Section, American Sociological Association
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, American Sociological Association
2022 Best Paper Award, U.S.-Japan Joint Conference on Mathematical Sociology and Rational Choice

University of California, Irvine

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

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

DISCIPLINARY SERVICE

American Sociological Association

2025 Graduate Student Paper Award Committee Member, Decision-Making, Social Networks, and Society Section

2024 Mentor, Mathematical Sociology Mentoring Program
2024 Mentor, Sociology of Population Mentoring Program

Occasional Referee: *American Journal of Sociology, Chinese Sociological Review, Demography, Journal of Mathematical Sociology, Sociological Methodology, Sociological Methods & Research, Stat, Statistica Sinica*

PROFESSIONAL MEMBERSHIPS

American Sociological Association (ASA)

American Political Science Association (APSA)

International Chinese Sociological Association (ICSA)

International Network of Social Network Analysis (INSNA)

Population Association of America (PAA)

REFERENCES

Available upon request