

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, Zack W. Almquist, Carter T. Butts. In press. “Endogenous Competition and the Under-realized Reproduction of Infectious Diseases.” *Proceedings of the National Academy of Sciences (PNAS)*.

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.”

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

2025 “Cultural Affinities and Political-economic Inequalities in the Global Visa-Free Mobility Networks, 1969-2010.” for Social Network Analysis Seminar (with Jacob Thomas)
Department of Sociology & Anthropology, University of Texas, El Paso

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

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

- 2022 Data@UCI Graduate School Panel
School of Information and Computer Sciences, UC Irvine
- 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.** 2025. “Spatial Demography of Political Polarization in the United States 1980-2020.” Annual Meeting of the American Sociological Association (ASA), Chicago, IL.
- Huang, Peng,** Zack W. Almquist, and Carter T. Butts. 2025. “Endogenous Competition and the Under-realized Diffusion in Social Networks.” ASA Methodology Section Midyear Meeting, Philadelphia, PA; Sunbelt Network Conference (INSNA), Paris, France; Annual Meeting of the American Sociological Association (ASA), Chicago, IL.
- Thomas, Jacob, **Peng, Huang.** 2025. “Why Do Most Potential Migrants Never Migrate? Advancing a New Survey Design for Testing Selectivity Theory and a Push-Retain-Pull-Repel Model for International Migration.” Annual Meeting of the Population Association of America (PAA), Washington, D.C.
- 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, PA; 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 Socio-

logical 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 Roundtable Presider, Annual Meeting of the American Sociological Association

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

2024 Mentor, Mathematical Sociology Mentoring Program

2024 Mentor, Sociology of Population Mentoring Program

International Network for Social Network Analysis

2025 Member, Best Student Paper Award Committee

Occasional Referee: *American Journal of Sociology, Chinese Sociological Review, Demography, Journal of Mathematical Sociology, Journal of the Royal Statistical Society: Series A, Sociological Methodology, Sociological Methods & Research, Stat, Statistica Sinica*

AFFILIATIONS AT THE UNIVERSITY OF GEORGIA

Faculty Affiliate, Owens Institute for Behavioral Research

Member, Computational Social Science Work Group

Member, Social and Behavioral Dynamics of Health, Well-Being, and Security Initiative

Faculty Affiliate, Center for the Ecology of Infectious Diseases

PROFESSIONAL MEMBERSHIPS

American Sociological Association (ASA)

American Political Science Association (APSA)

International Network of Social Network Analysis (INSNA)

Population Association of America (PAA)

REFERENCES

Available upon request