

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. 2025. “Endogenous competition and the underrealized reproduction of infectious diseases.” *Proceedings of the National Academy of Sciences (PNAS)*, 122(23):e2502676122.

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 (ASA)
- Outstanding Graduate Student Paper Award Honorable Mention, ASA Mathematical Sociology Section

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.

- Outstanding Article Publication Award, ASA Mathematical Sociology Section

- James S. Coleman Outstanding Article Award Honorable Mention, ASA Decision-Making, Social Networks, and Society Section
- 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

Huang, Peng. “Joint Destiny? Mapping Political Polarization through Demographic Decomposition.” Revise & resubmit. *Demography*.

Huang, Peng. “Micro-Macro Analysis of Network Change.”

Khuu, Thoa V., James D. Bachmeier, Jennifer Van Hook, **Peng Huang**. “Dispersed Settlement, Diverging Paths: The Uneven Geography of Second-generation Educational Attainment.”

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

2026 TBD. Innovations in Population Science Seminar Series.
Cornell Population Center, Cornell University (scheduled)

2025 “Social Network Analysis: What, Why and How?” Guest Workshop for Doctor of Business Administration Program.

Robinson College of Business, Georgia State University

- 2025 “Does Political Polarization Reduce Internal Migration in the U.S.? A Temporal Network Analysis.” Workshop on Causal Network Analysis.
Departments of Data and Decision Sciences, Economics, & Sociology, Emory University
- 2025 “Cultural Affinities and Political-economic Inequalities in the Global Visa-Free Mobility Networks, 1969-2010.” (with Jacob Thomas) Guest Lecture for Social Network Analysis Graduate Seminar.
Department of Sociology & Anthropology, University of Texas, El Paso
- 2024 “Social Network Analysis.” Guest Lecture 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 Intercity 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
- 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. “Joint Destiny? Mapping Political Polarization through Demographic Decomposition.” Annual Meeting of the American Sociological Association (ASA), Chicago, IL.

Huang, Peng, Zack W. Almquist, and Carter T. Butts. 2025. “Endogenous Competition and the Underrealized Diffusion in Social Networks.” ASA Methodology Section Midyear Meeting, Philadelphia, PA; Sunbelt Network Conference (INSNA), Paris, France; ASA Annual Meeting, 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.” PAA Annual Meeting, 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, ASA Annual Meeting, Philadelphia, PA; PAA Annual Meeting, 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.” ASA Annual Meeting, Philadelphia, PA; Sunbelt Network Conference, Portland, OR.

Huang, Peng, and Carter T. Butts. 2022. “Rooted America: Immobility and Segregation of the Intercounty Migration Network.” ASA Annual Meeting, Los Angeles, CA; PAA Annual Meeting, Atlanta, GA.

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.” ASA Annual Meeting, 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, 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, ASA Annual Meeting, 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, ASA Annual Meeting, 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, ASA Annual Meeting, 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, 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, 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; PAA Annual Meeting, Denver, CO.

Thomas, Jacob and **Peng Huang**. 2017. “Family Matters, But Most of All Not in the Way Most International Migration Scholars Think.” ASA Annual Meeting, Montreal, QC, August.

TEACHING

Instructor at the University of Georgia

Grad SOCI8650: Network Analysis

Undergrad SOCI3580: Research Methods

Teaching Assistant at the 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

ADVISING

In progress Alyson Gonzalez (Master’s Thesis Committee, UGA Sociology)

HONORS AND AWARDS

Extramural

2025 Outstanding Article Publication Award, Mathematical Sociology Section, American Sociological Association (ASA)

2025 James S. Coleman Outstanding Article Award Honorable Mention, ASA Decision-Making, Social Networks, and Society Section

2024 Best Student Paper Award, International Network for Social Network Analysis (INSNA)

2024 Outstanding Publication Award Honorable Mention, ASA Methodology Section

2024 Outstanding Graduate Student Paper Award Honorable Mention, ASA Mathematical Sociology Section

2023 Conference Accelerator Grant, Institute for Humane Studies

2023 Student Travel Award, Sunbelt Network Conference, INSNA

2022 Geoffrey Tootell Dissertation-in-progress Award, ASA Mathematical Sociology Section

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

DISCIPLINARY SERVICE

American Sociological Association

- 2026 Member, Outstanding Article Publication Award Committee, Mathematical Sociology Section
2025 Roundtable Presider, Urban Sociology Section, Annual Meeting
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, American Sociological Review, Chinese Sociological Review, Demography, Journal of Mathematical Sociology, Journal of the Royal Statistical Society: Series A, Social Forces, Sociological Methodology, Sociological Methods & Research, Stat, Statistica Sinica*

UNIVERSITY SERVICE

University of Georgia

- 2025-2026 Colloquium Committee, Department of Sociology
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

AFFILIATIONS AT THE UNIVERSITY OF GEORGIA

Faculty Affiliate, Owens Institute for Behavioral Research

Faculty Affiliate, Center for the Ecology of Infectious Diseases

Member, Computational Social Science Work Group

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

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