

# Wei Kang

ASSISTANT PROFESSOR · SCHOOL OF PUBLIC POLICY · UNIVERSITY OF CALIFORNIA RIVERSIDE

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## Education

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| 2018 | <b>Ph.D. Geography</b> , Arizona State University            | <i>Tempe, US</i>      |
| 2014 | <b>M.S. Cartology and GIS</b> , Peking University            | <i>Beijing, China</i> |
| 2011 | <b>B.S. Geographic Information System</b> , Wuhan University | <i>Wuhan, China</i>   |

## Current Academic Appointments

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- 2024- **Assistant Professor**, School of Public Policy, University of California Riverside
- 2023- **Affiliate Faculty**, Center for Geospatial Sciences, University of California Riverside
- 2023- **Affiliate Faculty**, Center for Open Geographical Science, San Diego State University

## Prior Academic Appointments

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- 2022-2024 **Assistant Professor**, Department of Geography and the Environment, Courtesy Faculty in the Department of Computer Science and Engineering, University of North Texas
- 2020-2022 **Research Scientist**, Inland Center for Sustainable Development, School of Public Policy, University of California Riverside
- 2018-2020 **Postdoctoral Scholar**, Center for Geospatial Sciences, University of California Riverside

## Research Grants

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|-----------|---|-------------|
| 2024-2027 | <b>POSE: Phase II: An Open Source Ecosystem for Spatial Data Science (#2345820)</b> ,<br>Co-Principal Investigator. Sponsor: National Science Foundation  | \$1,484,914 |
| 2022-2026 | <b>Forced Displacement and Community Resilience: Housing Insecurity under COVID-19 in Inland Southern California (#2151970)</b> , Co-Principal Investigator. Sponsor: National Science Foundation   | \$336,050   |
| 2023-2024 | <b>Identifying the Effect of Housing Policy on Mental Health Outcomes Among Low-Income Renters and their Children During the COVID-19 Pandemic</b> , Co-Principal Investigator. Sponsor: California Collaborative for Public Health Research (CPR3) | \$200,000   |
| 2023-2024 | <b>Fair Housing Reforms in Low Income Housing Tax Credits: An investigation of implications for neighborhoods and communities in the DFW region</b> , Principal Investigator. Sponsor: University of North Texas                                    | \$10,000    |

## Publications

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### REFEREED JOURNAL ARTICLES

- 2026 **Kang, W.**, Q. Wang, T. D. Hoffman, and B. G. Link. "Covid-19 emergency rental assistance improved mental health care and psychotherapy use among low-income renters." *Health Affairs*, 45(1):76–83. PMID: 41494124.
- 2025 Wang, S., X. Huang, Y. Tao, **W. Kang**, and Q. C. Sun. "Rising temperatures, rising disparities: The future of heat exposure in the U.S. by 2050." *Journal of Cleaner Production*, 528:146767.
- 2025 **Kang, W.**, T. M. Oshan. "Scale and correlation in multiscale geographically weighted regression (MGWR)." *Journal of Geographical Systems*.
- 2025 Wang, R. V., **W. Kang**, and X. Fu. "Do inclusionary zoning policies affect local housing markets? an empirical study in the United States". *Cities*, 158:105736.

- 2024 Biancardi, M., Y. Zhou, **W. Kang**, T. Xiao, T. Grubestic, J. Nelson, and L. Liang. "Exploring spatiotemporal dynamics, seasonality, and time-of-day trends of PM2.5 pollution with a low-cost sensor network: Insights from classic and spatially explicit Markov Chains." *Applied Geography*, 172:103414.
- 2024 Wang, Q., **W. Kang**. "Race/ethnicity and employment insecurity: Impacts of COVID-19 on the US labor force and beyond." *Population Research and Policy Review*.
- 2024 Chen, Y., D. V. Deventer, R. Nianogo, M. Vinceti, **W. Kang**, M. Cockburn, N. Federman, J. E. Heck. "Maternal exposure to industrial pollution during pregnancy and childhood cancer risk in California." *International Journal of Hygiene and Environmental Health*.
- 2023 Oselin, S., J. Ross, Q. Wang, **W. Kang**. "Fair Chance Act Failures? Employers' Hiring of People with Criminal Records." *Criminology & Public Policy*.
- 2023 Hatch, E., C. Wang, **W. Kang**, B. Karna, N. Sabinsky, K. Ferguson. "Geographies of Opportunity for Youth Across the Contiguous United States." *Professional Geographers*.
- 2023 Wang, Q., **W. Kang**. "Small Businesses and Government Assistance during COVID-19: Evidence from the Paycheck Protection Program in the U.S." *Environment and Planning A: Economy and Space*.
- 2023 Luo, W., Y. Zhou, Z. Liu, **W. Kang**, S. He, R. Zhu, R. Li, and B. Huang. "Cross-regional analysis of the association between human mobility and COVID-19 infection in Southeast Asia during the transitional period of "living with COVID-19"." *Health & Place*.
- 2022 **Kang, W.**, Q. Wang. "The impact of COVID-19 on small businesses in the U.S.: A longitudinal study from a regional perspective." *International Regional Science Review*.
- 2022 Rey, S. J., L. Anselin, P. Amaral, D. Arribas-Bel, R. X. Cortes, J. D. Gaboardi, **W. Kang**, E. Knaap, Z. Li, S. Lumnitz, T. M. Oshan, H. Shao, L. J. Wolf. "The PySAL ecosystem: philosophy and implementation." *Geographical Analysis*, 54(3): 467-487.
- 2022 **Kang, W.**, E. Knaap, S.J. Rey. "Changes in the economic status of neighborhoods in U.S. metropolitan areas from 1980 to 2010: stability, growth, and polarization." *Urban Studies*, 59(13): 2774-2800.
- 2021 Wang, Q., **W. Kang**. "What Are the Impacts of COVID-19 on Small Businesses in the U.S.? Early Evidence based on the Largest 50 MSAs." *Geographical Review*.
- 2021 Yousif, A., K. Ibrahim, **W. Kang**, W.Z.W. Zin. "Robust empirical Bayes approach for Markov chain modeling of air pollution index." *Journal of Environmental Health Science and Engineering*, 19(1): 343-356.
- 2021 Wei, R., T. H. Grubestic, **W. Kang**. "Spatiotemporal patterns of alcohol outlets and violence: A Spatially Heterogeneous Markov Chain Analysis." *Environment and Planning B: Urban Analytics and City Science*, 48(8): 2151-2166.
- 2020 **Kang, W.**, S. J. Rey, L. J. Wolf, E. Knaap, S. Y. Han. "Sensitivity of Sequence Methods in the Study of Neighborhood Change in the United States." *Computers, Environment and Urban Systems*, 81.
- 2020 **Kang, W.**, S.J. Rey. "Inference for Income Mobility Measures in the Presence of Spatial Dependence." *International Regional Science Review*, 43(1-2): 10-39.
- 2020 Shao, H., W. Li, **W. Kang**, S. J. Rey. "When PySAL Meets CI: Towards an Interoperable and Replicable Cyberinfrastructure for Online Spatial-Statistical-Visual Analytics." *Journal of Geovisualization and Spatial Analysis*, 4(2): 1-16.
- 2020 Rey, S. J., S. Y. Han, **W. Kang**, E. Knaap, R. X. Cortes. "A Visual Analytics System for Space-Time Dynamics of Regional Income Distributions Utilizing Animated Flow Maps and Rank-based Markov Chains." *Geographical Analysis*, 52(4): 537-557.
- 2020 Lumnitz, S., D. Arribas-Bell, R.X. Cortes, J. Gaboardi, V. Griess, **W. Kang**, T. Oshan, L. Wolf, S. Rey. "'splot' - visual analytics for spatial statistics." *Journal of Open Source Software*, 5(47): 1882.
- 2020 Yousif, A., K. Ibrahim, **W. Kang**, W. Z. W. Zin. "Modeling the Spatio-Temporal Dynamics of Air Pollution Index Based on Spatial Markov Chain Model." *Environmental Monitoring and Assessment*, 192(11): 1-24.
- 2019 **Kang, W.**, S.J. Rey. "Smoothed Estimators for Markov Chains with Sparse Spatial Observations." *Geographical Analysis*, 53(2): 307-328.
- 2019 Yousif, A., K. Ibrahim, **W. Kang**, W. Z. W. Zin. "Markov Chain Modeling for Air Pollution Index Based on Maximum A Posteriori Method." *Air Quality, Atmosphere and Health*, 12: 1521-1531.

- 2019 Organizers, **W. Kang**, T. Oshan, L. J. Wolf, Discussants, G. Boeing, V. Frias-Martinez, S. Gao, A. Poorthuis, W. Xu. “A roundtable discussion: Defining urban data science.” *Environment and Planning B: Urban Analytics and City Science*, 46(9):1756–1768.
- 2019 Han, S. Y., S. Rey, E. Knaap, **W. Kang**, L. J. Wolf. “Adaptive choropleth mapper: An open-source web-based tool for synchronous exploration of multiple variables at multiple spatial extents.” *ISPRS International Journal of Geo-Information*, 8(11).
- 2019 Oshan, T., Z. Li, **W. Kang**, L. J. Wolf, A. S. Fotheringham. “MGWR: A Python Implementation of Multiscale Geographically Weighted Regression for Investigating Process Spatial Heterogeneity and Scale.” *ISPRS International Journal of Geo-Information*, 8(6).
- 2019 Oshan, T., L. J. Wolf, A. S. Fotheringham, **W. Kang**, Z. Li, H. Yu. “A comment on geographically weighted regression with parameter-specific distance metrics.” *International Journal of Geographical Information Science*, 33(7): 1289-1299.
- 2019 Yu, H., A. S. Fotheringham, Z. Li, T. Oshan, **W. Kang**, L. J. Wolf. “Inference in Multiscale Geographically Weighted Regression.” *Geographical Analysis*, 52(1): 87-106.
- 2019 Rey, S. J., **W. Kang**, L. J. Wolf. “Regional Inequality Dynamics, Stochastic Dominance, and Spatial Dependence.” *Papers in Regional Science*, 98(2): 861-881.
- 2018 **Kang, W.**, S. J. Rey. “Conditional and Joint Tests for Spatial Effects in Discrete Markov Chain Models of Regional Income Distribution Dynamics.” *The Annals of Regional Science*, 61(1): 73-93.
- 2017 Fotheringham, A. S., W., Yang, **W. Kang**. “Multiscale Geographically Weighted Regression (MGWR).” *Annals of the American Association of Geographers*, 107(6): 1247–1265.
- 2016 Rey, S. J., **W. Kang**, L. J. Wolf. “The Properties of Tests for Spatial Effects in Discrete Markov Chain Models of Regional Income Distribution Dynamics.” *Journal of Geographical Systems*, 18(4): 377–3985.
- 2015 Liu, Y., **W. Kang**. “An Atomic Model of Spatiotemporal Query Based on Object-Oriented Snapshot Model.” *Acta Scientiarum Naturalium Universitatis Pekinensis*, 51(4): 755-762.
- 2014 Liu, Y., R. Si, **W. Kang**. “Research on the Complex Structural Properties of Urban Taxi Passenger Flow Network.” *Acta Scientiarum Naturalium Universitatis Pekinensis*, 50(5): 873-879.

## BOOK CHAPTERS

- 2022 **Kang, W.** “Spatial Dynamics.” *Handbook of Spatial Analysis in the Social Sciences*, Rey, S. J., and R. Franklin (eds.) Edward: Elgar Cheltenham.
- 2020 **Kang, W.** “PySAL and Spatial Statistics Libraries.” *The Geographic Information Science & Technology Body of Knowledge (3rd Quarter 2020 Edition)*, John P. W. (eds.)

## CONFERENCE PROCEEDINGS

- 2025 Wolf, L. J. and **W. Kang**. “Theil-Sen Estimation for Moran’s I: A Robust Representation and Estimation Approach.” 33rd Annual GIS Research UK Conference (GISRUK). University of Bristol, UK. <https://doi.org/10.5281/zenodo.15121849>
- 2018 Rey, S. J., E. Knaap, S. Han, L. J. Wolf, and **W. Kang**. “Spatio-temporal analysis of socioeconomic neighborhoods: The Open Source Longitudinal Neighborhood Analysis Package (OSLNAP).” *Proceedings of the 17th Python in Science Conference (SciPy 2018)*: 121-128.

## TECHNICAL REPORTS

- 2022 **Kang, W.**, Y. White. “Overcrowdedness, Housing Insecurity, and COVID-19: The Case of Inland Southern California.” UCR Inland Center for Sustainable Development.
- 2022 **Kang, W.**, Y. White. “Housing Affordability in Riverside and San Bernardino Counties.” UCR Inland Center for Sustainable Development.
- 2021 **Kang, W.**, K. Kopko. “Living with the COVID-19 Pandemic for a Year: The Exacerbated Housing Insecurity Issue.” UCR Inland Center for Sustainable Development.
- 2020 Kopko, K., A. Warfield, **W. Kang**. “When the Home Becomes the Place of K-12 Education: How COVID-19 is Challenging the Education and Digital Divide.” UCR Inland Center for Sustainable Development.
- 2020 **Kang, W.**, K. Kopko. “Housing Insecurity & the COVID-19 Pandemic.” UCR Inland Center for Sustainable Development.

2020 **Kang, W.**, K. Kopko. "Economic Impacts of COVID-19 on Small Businesses in the Inland Region." UCR Inland Center for Sustainable Development.

## Presentations

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### CONFERENCE PARTICIPATION AND PRESENTATIONS

- 2025 (Presenter) **Kang, W.**, and L. Wolf. "Unpacking Spatial Dependence: A Variance-Stabilized Approach to Spatial Autoregressive Simulations." 72nd Annual North American Meetings of the Regional Science Association International. Denver, CO. November.
- 2025 (Collaborator) Wolf, L., and **W. Kang**. "Robust Estimation for Local Moran's I." 33rd Annual GIS Research UK Conference. Bristol, UK. April.
- 2025 (Collaborator) Kuttler, S., H. S. Jang, and **W. Kang**. "Healthcare Accessibility for Individuals Exiting Homelessness." 2025 ASPA Annual Conference. Washington, DC. March.
- 2025 (Presenter) **Kang, W.**. "Promoting Development in High-Opportunity Areas: Incentives and Siting of Low-Income Housing Tax Credit Projects." Western Regional Science Association 64th Annual Meeting. Henderson, Nevada. February.
- 2024 (Presenter) **Kang, W.**, and T. Hoffman. "Impact of Fair Housing Initiative on Siting Patterns of Affordable Housing Developments: Evidence from the Low Income Housing Tax Credit (LIHTC)." Association of American Geographers Annual Meeting. Honolulu, HI. April.
- 2023 (Presenter) **Kang, W.**, and T. Oshan. "Multicollinearity in Multiscale Geographically Weighted Regression (MGWR)." 70th Annual North American Meetings of the Regional Science Association International. San Diego, CA. November.
- 2023 (Presenter) Wang, Q., **W. Kang**. "Government Assistance and Small Businesses in Underserved Communities: Evidence from the Paycheck Protection Program in the U.S." The 62nd Annual Meeting of the Western Regional Science Association. Big Island, HI. February.
- 2022 (Organizer) "Sessions on Spatial Data Science for Impact: Advances in open source, open science frameworks, methods, applications, and infrastructures for the public good." Association of American Geographers Annual Meeting. New York, NY. Feb 25-Mar 1.
- 2021 (Organizer) "Sessions on Urban Data Science: Methods & Models for our Changing Cities." Association of American Geographers Annual Meeting. Virtual Conference. April.
- 2020 (Organizer) "Sessions on Urban Data Science: Methods & Models for our Changing Cities." Association of American Geographers Annual Meeting. Denver, CO. April.
- 2020 (Collaborator) Wei, R., T. H. Grubestic, and **W. Kang**. "Spatiotemporal patterns of alcohol outlets and violence: A Markov Chain Analysis." Western Regional Science Association 59th Annual Meeting. Waikiki, HI. March.
- 2019 (Presenter) **Kang, W.**, and S. J. Rey. "A New Optimal Matching Approach to Uncovering Neighborhood Sequencing Structure." 66th Annual North American Meetings of the Regional Science Association International. Pittsburgh, PA. November.
- 2019 (Presenter) **Kang, W.**, and S. J. Rey. "Urban income mobility as a multifaceted concept in the United States." Association of American Geographers Annual Meeting. Washington, DC. April.
- 2019 (Collaborator) Rey, S.J., and **W. Kang**. "Spatial Inequality, Mobility, and Equalization Dynamics for U.S. Metropolitan Areas 1970-2010." Association of American Geographers Annual Meeting. Washington, DC. April.
- 2019 (Organizer, Chair) "Sessions on Methods and Motivations for Measuring Spatial Inequality & Socioeconomic Mobility." Association of American Geographers Annual Meeting. Washington, DC. April.
- 2019 (Organizer, Chair) "Sessions on Urban Data Science: Methods & Models for our Changing Cities." Association of American Geographers Annual Meeting. Washington, DC. April.
- 2019 (Collaborator) **Kang, W.**, S.J. Rey, L.J. Wolf, E. Knaap, and S. Han. "Fishing for neighborhood trajectory patterns in the United States - a comparison of sequence analysis methods." The 58th Annual Meeting of Western Regional Science Association. Napa Valley, CA. February.
- 2018 (Presenter) **Kang, W.**, S. J. Rey, L. J. Wolf, E. Knaap, and S. Han. "Fishing for neighborhood trajectory patterns - a comparison of sequence analysis methods." 65th Annual North American Meetings of the Regional Science Association International. San Antonio, TX. November.

- 2018 (Collaborator) Rey, S.J., E. Knaap, S. Han, L. Wolf, and **W. Kang**. “Spatio-temporal Analysis of Socioeconomic Neighborhoods: The Open Source Longitudinal Neighborhood Analysis Package (OSLNAP).” Scientific Computing with Python. Austin. July.
- 2018 (Organizer, Chair, Panelist) “Symposium on Integrating Spatial Statistics within Open Source & Open Science.” Association of American Geographers Annual Meeting. New Orleans, LA. April.
- 2018 (Presenter) **Kang, W.** and S.J. Rey. “Smoothed Estimators for Markov Chains with Sparse Spatial Observations.” Association of American Geographers Annual Meeting. New Orleans, LA. April.
- 2018 (Presenter) **Kang, W.** and S.J. Rey. “Assessing performance of global and local indicators of mobility association under spatial autocorrelation.” The 57th Annual Meeting of Western Regional Science Association. Pasadena, CA. February.
- 2017 (Presenter) **Kang, W.** and S.J. Rey. “Regional income mobility and spatial dependence.” 64th Annual North American Meetings of the Regional Science Association International. Vancouver, BC. November.
- 2017 (Presenter) Rey, S.J., X. Ye and **W. Kang**. “Spatial economic inequality dynamics in China, 1978-2012.” Association of American Geographers Annual Meeting. Boston, MA. April.
- 2017 (Presenter) **Kang, W.** and S.J. Rey. “Regional income mobility and spatial dependence.” Western Regional Science Association 56th Annual Meeting. Santa Fe, NM. February.
- 2016 (Collaborator) Rey, S.J., **W. Kang** and L.J. Wolf. “Regional inequality dynamics, stochastic dominance, and spatial dependence.” The 63th Annual North American Meetings of the Regional Science Association International. Minneapolis, Minnesota. November
- 2016 (Presenter) **Kang, W.** and S.J. Rey. “Spatial effects in Solow growth model - a simulation analysis.” Association of American Geographers Annual Meeting. San Francisco, CA. April.
- 2016 (Presenter) **Kang, W.** and S.J. Rey. “A comparison of tests for spatial effects in discrete Markov chain models of regional income distribution dynamics.” The 55th Annual Meeting of Western Regional Science Association. Waikoloa, HI. February.
- 2015 (Collaborator) Rey, S.J., **W. Kang**, and L.J. Wolf. “Properties of tests for spatial effects in discrete Markov chain models of regional income distribution dynamics.” 62th Annual North American Meetings of the Regional Science Association International. Portland. November.
- 2015 (Presenter) Rey, S.J., **W. Kang**, and L.J. Wolf. “Properties of tests for spatial effects in discrete Markov chain models of regional income distribution dynamics.” Scientific Computing with Python. Austin. July.
- 2012 (Presenter) **Kang, W.** “Preliminary Analysis of Spatial Cognition Characteristics under Ubiquitous Mapping Environment.” ICA Workshop on Ubiquitous Mapping. The University of Tokyo, Japan. July.

## INVITED TALKS

- Fall 2023. “Multicollinearity in Multiscale Geographically Weighted Regression.” University of North Texas Computer Science and Engineering (CSE) Seminar.
- Fall 2022. “Advancing & Integrating Open Source Spatial Data Science to Promote Equitable Regions and Policies.” Academic Forum in Spatial Analytics and Spatial Statistics hosted by China University of Mining and Technology College of Environment and Geomatics.
- Fall 2021. “Sequence Methods in the Study of Neighborhood Change.” University of Chicago.
- Spring 2017. “Spatial dynamics: Markov methods.” Arizona State University.

## Courses Taught

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### UNIVERSITY OF CALIFORNIA RIVERSIDE

Spring 2026	<b>PBPL 200 - Policy Analysis</b> , Instructor	<i>Riverside, CA</i>
Winter 2026	<b>PBPL 177 - Housing Policy</b> , Instructor	<i>Riverside, CA</i>
Winter 2026	<b>PBPL 236E - US Census Data and Policy Studies</b> , Instructor	<i>Riverside, CA</i>
Spring 2025	<b>PBPL 177 - Housing Policy</b> , Instructor	<i>Riverside, CA</i>
Spring 2025	<b>PBPL 236E - US Census Data and Policy Studies</b> , Instructor	<i>Riverside, CA</i>

### UNIVERSITY OF NORTH TEXAS

Spring 2024	<b>GEOG 5550 - Advanced Geographic Information Systems</b> , Instructor	<i>Denton, TX</i>
Fall 2023	<b>GEOG 5560 - Python Programming</b> , Instructor	<i>Denton, TX</i>
Spring 2023	<b>GEOG 5550 - Advanced Geographic Information Systems</b> , Instructor	<i>Denton, TX</i>
Spring 2023	<b>GEOG 4560 - Introduction to Python Programming</b> , Instructor	<i>Denton, TX</i>
Fall 2022	<b>GEOG 5560 - Python Programming</b> , Instructor	<i>Denton, TX</i>

## ARIZONA STATE UNIVERSITY

Fall 2014	<b>Statistics for Geographers</b> , Graduate Teaching Assistant	<i>Tempe, AZ</i>
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## SHORT AND INVITED COURSES

2019	<b>Spatial Data Science with PySAL (Python Spatial Analysis Library)</b> , Co-Instructor	<i>Pittsburgh, PA</i>
2018	<b>Spatial Data Science with PySAL (Python Spatial Analysis Library)</b> , Co-Instructor	<i>San Antonio, TX</i>
2017	<b>Spatial Data Science with PySAL (Python Spatial Analysis Library)</b> , Co-Instructor	<i>Vancouver, BC</i>

## Mentoring

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2023-2024	<b>Madeline Crawford, Master Student in Geography, UNT</b> , Committee Member	<i>Denton, TX</i>
2023-2024	<b>Matthew Huizar, Undergraduate in GIS+CS, UNT</b> , Mentor for the Undergraduate Research Fellowship	<i>Denton, TX</i>
2022-2024	<b>Injal Bhattarai, Master Student in Geography, UNT</b> , Committee Member	<i>Denton, TX</i>
2020-	<b>John South, PhD Student in Environmental Science, UNT</b> , Committee Member	<i>Denton, TX</i>
2021-2023	<b>Noah Ray, Master Student in Geography, UNT</b> , Committee Member	<i>Denton, TX</i>
2019-2023	<b>Michael Biancardi, Undergraduate Student in Computer Science, UNT</b> , Honor thesis Committee Member	<i>Denton, TX</i>
2021-2023	<b>Kaitlin Stewart, Master Student in Geography, UNT</b> , Committee Member	<i>Denton, TX</i>
2021-2023	<b>Shwarnali Bhattacharjee, Master Student in Geography, UNT</b> , Committee Member	<i>Denton, TX</i>

## Professional Service

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### EDITORIAL SERVICE

2023-	<b>Computers, Environment and Urban Systems</b> , Editorial Board Member
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### PROFESSIONAL ASSOCIATION SERVICE

2019-2022	<b>AAG Spatial Analysis and Modeling Specialty Group</b> , Board Member
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### CONFERENCE ORGANIZATION

2025-2026	<b>Spatial Data Science Summit 2026</b> , Organizing Committee Member	<i>Berkeley, CA</i>
2026	<b>SIGSPATIAL 2026 Broadening Participation in Computing (BPC) track</b> , Co-Chair	<i>Riverside, CA</i>

### OPEN SOURCE PYTHON PACKAGE DEVELOPMENT

**PySAL**: Open source python spatial analysis library for geospatial data science.

**giddy**: Open source Python package for exploratory spatiotemporal data analysis and the analysis of geospatial distribution dynamics.

**mgwr**: Open source Python package for the calibration and inference of multiscale geographically weighted regression.

**pointpats**: Open source Python package for statistical analysis of planar point patterns.

**geosnap**: Open source Python package for the exploration, modeling, analysis, and visualization of the social and spatial dynamics of neighborhoods.

**cenpy**: A python interface to explore and query the U.S. Census API.

## JOURNAL REFEREE

Annals of the American Association of Geographers, Annals of Regional Science, Applied Geography, Applied Spatial Analysis and Policy, Arabian Journal of Geosciences, Cartography and Geographic Information Science, Computational Urban Science, Computers, Environment and Urban Systems, Environment and Planning A: Economy and Space, Environment and Planning B: Urban Analytics and City Science, Forests, Geographical analysis, Global Environmental Change, Growth and Change, Housing Policy Debate, Human Geography, Humanities and Social Sciences Communications, IEEE Data Descriptions, International Journal of Geographical Information Science, International Regional Science Review, Journal of Geographical Systems, Journal of Maps, Journal of Occupational and Environmental Medicine, Journal of Planning Education and Research, Journal of Spatial Science, Papers in Regional Science, Population Space and Place, Socio-Economic Planning Sciences, The Annals of Regional Science, The Journal of Open Source Software

## PROFESSIONAL ASSOCIATIONS

Association of American Geographers, Association for Public Policy Analysis and Management, Regional Science Association International, Spatial Econometrics Association

## GRANT REVIEW PANEL

National Science Foundation

## GRANT PROPOSAL AD-HOC REVIEWER

National Science Foundation

## Service to University and Community

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### UNIVERSITY OF CALIFORNIA RIVERSIDE

2025-2026 **School of Public Policy Graduate Committee**, Member

*Riverside, CA*

2019 **GIS Day Planning Committee**, Member

*Riverside, CA*

### UNIVERSITY OF NORTH TEXAS

2024 **Environmental Science (ENSC) Graduate Program Admissions Committee**, Member

*Denton, TX*

2023-2024 **Search Committee for Assistant Professor**, Member

*Denton, TX*

2023-2024 **Geography Department Strategic Planning Committee**, Member

*Denton, TX*

2023-2024 **CAS IT Computing Committee**, Member

*Denton, TX*

2022-2023 **Geography Department Graduate Studies Committee**, Member

*Denton, TX*

2022-2023 **Search Committee for Lecturer in GIS**, Member

*Denton, TX*

### ARIZONA STATE UNIVERSITY

2015-2018 **Grant Reviewer for Graduate and Professional Students Association**, Member

*Tempe, AZ*