

- **Yao, Z.**, Blumenberg, E., & Wander, M. (2024) Variation in child care access across neighborhood types: A two-step floating catchment area (2SFCA) approach. *Annual Meeting of American Association of Geographers*, Honolulu, HI, 2024
- **Yao, Z.**, & Kim, C. (2023). Analyzing the multiscale patterns of jobs-housing balance and employment self-containment by different income groups using LEHD data: A case study in the Cincinnati metropolitan area. *Annual Meeting of American Association of Geographers*, online, 2023
- **Yao, Z.**, & Kim, C. (2021). Do people working in suburban areas experience less traffic congestion? An empirical study of the OKI region. *Annual Meeting of American Association of Geographers*, online, 2021.
- **Yao, Z.**, & Kim, C. (2019). Is a jobs-housing balance possible to reduce commuting? An empirical study of the Cincinnati Metropolitan Area based on LEHD data. *American Association of Geographers Annual Meeting*, Washington D.C., 2019.
- **Yao, Z.**, & Kim, C. (2017). The changes of urban structures and their effect on commuting patterns. *American Association of Geographers Annual Meeting*, Boston, 2017.
- **Yao, Z.**, & Kim, C. (2016). Measuring spatial structure of American metropolitan statistical areas and an application to commuting time. *63rd Annual North American Meetings of the Regional Science Association International*. Minneapolis, MN.

RESEARCH UNDER PREPARATION

- Riding Through Change: Gender-Specific Trends in Bike Share Pre- and Post-COVID-19
- The scale effect of activity space on the patterns of grocery shopping in Great Twin Cities in Minnesota
- The gender disparity in trip complexity in Los Angeles

TEACHING EXPERIENCES

- **Carpentries Instructor (Since 2021/04)**
 - [R for Reproducible Scientific Analysis](#)
 - [Programming with Python](#)
 - [Plotting and Programming in Python](#)
 - [Geospatial analysis with R.](#)
 - [Mapping and analyzing with QGIS](#)
- **Instructor, 2021/01-2021/03 Winter Quarter**
 - EH207, Introduction to GIS, Fielding School of Public Health, UCLA
- **Guest Lecture, Fall 2020 & Winter 2021**
 - DH199, Mapping racism, Urban design, and Thermal Inequality, Institute for Society and Genetics & Department of History, UCLA
 - EPS 1111, Stratigraphic and Field Geology, Department of Earth, Planetary, and Space Sciences, UCLA
- **Instructor (2019)**
 - GEOG6081C/5181C, Introduction to GIS, Department of Geography and GIS, University of Cincinnati

- GEOG1001, Physical Geography, Department of Geography and GIS, University of Cincinnati
- **Teaching Assistant (2015-2018)**
 - GEOG5171C, Introduction to GIS, Department of Geography and GIS, University of Cincinnati
 - GEOG1040, Earth from Space, Department of Geography and GIS, University of Cincinnati
 - GEOG6091C, Advanced GIS, Department of Geography and GIS, University of Cincinnati
 - GEOG6085C, Spatial Statistics II, Department of Geography and GIS, University of Cincinnati

Grants GRANTS, AWARDS, & HONORS

- **Minnesota Institute for Leadership, \$2000**, University of Minnesota, 2024/07
- **LAUC Research & Professional Development Grant, \$4988, Co-PI**, Librarians Association of the University of California, 2024 – 2025
- **Laura Bush 21st Century Librarian Program, \$230,000, Program Coordinator**, Institute of Museum and Library Service, 2022/08
- **LAU-LA Mini Grant, \$500**, UCLA Library, 2020, 2021, 2023, & 2024
- **AAG-UIUC Research Grant, \$5000**, University of Illinois at Urbana-Champaign, 2019/07
- **Excellent Student Tuition and Insurance Grant, \$5000**, College of Arts and Sciences, University of Cincinnati, 2018 - 2020

MEMBERS & AFFILIATION

- **American Association of Geographers**, 2016 – 2024
- **[The Carpentries](#) Certified Instructor**, 2021/04 - present
- **UC GIS Leadership Committee**, Committee member, 2020/6 – present
- **Graduate Student Association**, President, Department of Geography, University of Cincinnati, 2017 – 2018
- **Graduate Student Leadership**, Monitor, Chinese Academy of Sciences, 2011 - 2012

RELATED SKILLS

- **Software** ArcGIS Pro, QGIS, SPSS, Visual Studio, R Studio
- **Programming** Python (GIS modeling), R (Statistical analysis).
- **Data Analysis** Spatial Analysis, Geostatistical Analysis (Network analysis and Accessibility analysis), Machine Learning Modeling, Urban Structures and Commuting/Travel Pattern Analysis.
- **GIS Techniques** Projections; Geocoding; Creating Professional maps.