Xiang 'Jacob' Yan

EDUCATION

University of Michigan, Ann Arbor, Michigan

· Ph.D. in Urban and Regional Planning (Transportation Technology & Geospatial Analytics)	2019
· Master's in Urban Planning (Housing, Community, and Economic Development)	2015

University of Florida, Gainesville, Florida
· M.S. in Civil Engineering (Transportation Engineering)	2021

Nanjing University, Nanjing, China
· B.E. in Urban Planning (Economic Geography)	2013

EMPLOYMENT

Assistant Professor, Civil & Coastal Engineering, University of Florida	2022 -
Research Assistant Professor, Civil & Coastal Engineering, University of Florida	2021 - 2022
Postdoctoral Associate, Urban and Regional Planning, University of Florida	2019 - 2020
Graduate Student Research Assistant, Urban & Regional Planning, Univ. of Michigan	2015 - 2019
GIS Analyst, School for Environment & Sustainability, University of Michigan	2014 - 2015
Data Analyst, Department of Institutional Research, Washtenaw Community College	2014
Instructor, Nanjing New Oriental School, China	2012 - 2013

AWARDS, HONORS, AND FELLOWSHIPS

Equity Paper Award, *Transportation Research Board Bicycle Transportation Committee (ACH20)*	2024
Outstanding Reviewer 2022, *Transportation Research Part D: Transport and Environment*	2023
Best Dissertation Award, *World Society for Transport and Land Use Research*	2021
2020 Outstanding Paper Award, *Travel Behaviour and Society*	2021
Distinguished Dissertation Award in Urban and Regional Planning, *University of Michigan*	2020
Rackham One-Term Dissertation Fellowship, *University of Michigan*	2019
AICP Student Project Award, *American Planning Association*	2018
Honorable Mention, Karen Polenske Best Student Paper Award, *Intl. Assoc. for China Planning*	2018
ICR-Rackham Summer Training Award ($2500), *University of Michigan*	2016
Engaged Pedagogy Initiative Fellow, *University of Michigan*	2014
Meng Minwei Exchange Student Scholarship (25,000 RMB), *Shun Hing Group Foundation*	2011

PUBLICATIONS

Peer-reviewed Journal Articles

(Note: Student co-authors are underlined.)

[29] Fang, J., **Yan, X.**, Tao, T., Chen, C. (2024). Non-linear Effects of Built Environment Factors on Mode Choice: A Tour-Based Analysis. *Journal of Transport and Land Use*. https://doi.org/10.5198/jtlu.2024.2403

[28] Yin, Z., Rybarczyk, G., Zheng, A., Su, L., Sun, B. **Yan, X.** (2024). Shared micromobility as a first- and last-mile transit solution? Spatiotemporal insights from a novel dataset. *Journal of Transport Geography.* https://doi.org/10.1016/j.jtrangeo.2023.103778

[27] Forrister, A., Kuligowski, E., Sun, Y., **Yan, X.**, Lovreglio, R., Cova, T., Zhao, X. (2024). Analyzing Risk Perception, Evacuation Decision and Delay Time: A Case Study of the 2021 Marshall Fire in Colorado. *Travel Behaviour and Society*, 35, 100729. https://doi.org/10.1016/j.tbs.2023.100729

[26] Su, L., **Yan, X.**, Zhao, X. (2024). Micromobility equity: A comparison of shared e-scooters and station-based bikeshare in Washington DC. *Transport Policy*, 145, 25-36. https://doi.org/10.1016/j.tranpol.2023.10.008

[25] Huang, E., Yin, Z., Broaddus, A., **Yan, X.** (2024). Transit and shared e-scooter integration: Travel behavior insights from Los Angeles and Washington D.C.. *Travel Behavior and Society*, 34, 100663. https://doi.org/10.1016/j.tbs.2023.100663

[24] **Yan, X.**, Zhao, X., Broaddus, A., Johnson, J., Srinivasan, S. (2023). Evaluating shared e-scooters' potential to enhance public transit and reduce driving. *Transportation Research Part D: Transport and Environment*, 117, 103640. https://doi.org/10.1016/j.trd.2023.103640

[23] Yang, W., Jafarzadehfadaki, M., **Yan, X.**, Zhao, X., Jin, X., Frolinch, D., Sisiopiku, V. (2023). Shared E-scooters: User Characteristics and Usage Patterns across Four U.S. Cities. *Transportation Research Record*, 03611981231194626. https://doi.org/10.1177/03611981231194626

[22] Fang, J., **Yan, X.**, Bejleri, I., Chen, C. (2022). Which trip destination matters? Estimating the influence of the built environment on mode choice for home-based complex tours. *Journal of Transport Geography*, 105, 103474. https://doi.org/10.1016/j.jtrangeo.2022.103474

[21] Wu, A., Kuligowski, E., Lovreglio, R., Nilsson, D., Cova, T., Xu, Y., **Yan, X.**, & Zhao, X. (2022). Wildfire evacuation decision modeling using GPS data. *International Journal of Disaster Risk Reduction*, 83, 103373. https://doi.org/10.1016/j.ijdrr.2022.103373

[20] Xu, Y., Zhao, X., Lovreglio, R., Kuligowski, E., Nilsson, D., Cova, T., & **Yan, X.** (2022). A highway vehicle routing dataset during the 2019 Kincade Fire evacuation. *Scientific Data.* https://doi.org/10.1038/s41597-022-01731-6

[19] Zhao, X., Xu, Y., Lovreglio, R., Kuligowski, E., Nilsson, D., Cova, T., Wu, A., **Yan, X.** (2022). Estimating wildfire evacuation decision and departure timing using large-scale GPS data. *Transportation Research Part D: Transport and Environment*, 107. 103277. https://doi.org/10.1016/j.trd.2022.103277

[18] Xu, Y., **Yan, X.**, Sisiopiku, V., Merlin, L., Xing, F., Zhao, X. (2022). Micromobility trip origin and destination inference using General Bikeshare Feed Specification (GBFS) data. *Transportation Research Record: Journal of the Transportation Research Board*, 2676 (11), 223-238. https://doi.org/10.1177/03611981221092005

[17] **Yan, X.**, Bejleri, I., Zhai, L. (2022). A spatiotemporal analysis of transit accessibility to low-wage jobs in Miami-Dade County. *Journal of Transport Geography*, 98. 103218. https://doi.org/10.1016/j.jtrangeo.2021.103218

[16] **Yan, X.**, Yang, W., Zhang, X., Xu, Y., Bejleri, I., Zhao, X. (2021). A spatiotemporal analysis of e-scooters' relationships with transit and station-based bikesharing. *Transportation Research Part D: Transport and Environment*, 12, 103088. https://doi.org/10.1016/j.trd.2021.103088

[15] Wang, X., **Yan, X.**, Zhao, X., Cao, Z. (2022). Identifying latent shared mobility preference segments in low-resourced communities: Ridehailing, fixed-route bus, and mobility-on-demand transit. *Travel Behaviour and Society*, 26, 134-163. https://doi.org/10.1016/j.tbs.2021.09.011

[14] Chen, S., **Yan, X.**, Pan, H., Deal, B. (2021). Using big data for last-mile performance evaluation: An accessibility-based approach. *Travel Behaviour and Society*, 25, 153-163. https://doi.org/10.1016/j.tbs.2021.06.003

[13] Steiner, R., Bejleri, I., Bai, X., Han, M., **Yan, X**. (2021). Partnerships between agencies and transportation network companies for transportation-disadvantaged populations: Opportunities and challenges. *Transportation Research Record: Journal of the Transportation Research Board*, 2675 (12), 1260-1271. https://doi.org/10.1177/03611981211032629

[12] **Yan, X.**, Zhao, X., Han, Y., Van Hentenryck, P., Dillahunt, T. (2021). Mobility-on-demand versus fixed-route transit systems: An evaluation of traveler preferences in low-income communities. *Transportation Research Part A: Policy and Practice*, 148, 481-495. https://doi.org/10.1016/j.tra.2021.03.019

[11] **Yan, X.** (2021). Toward accessibility-based planning: Addressing the myth of travel-cost savings. *Journal of the American Planning Association*, 87 (3), 409-423. https://doi.org/10.1080/01944363.2020.1850321

[10] Merlin, L., **Yan, X.**, Xu, Y., Zhao, X. (2021). A segment-level model of shared scooter origins and destinations. *Transportation Research Part D: Transport and Environment*, 92, 102709. https://doi.org/10.1016/j.trd.2021.102709

[9] Xu, Y., **Yan, X.**, Liu, X., Zhao, X. (2021). Identifying key factors associated with ride-splitting rate and modeling their nonlinear relationships. *Transportation Research Part A: Policy and Practice*, 144, 170-188. https://doi.org/10.1016/j.tra.2020.12.005

[8] Deng, L., **Yan, X.**, Chen, J. (2021). Housing affordability, subsidized lending and cross-city variation in the performance of China's housing provident fund program. *Housing Studies*, 36(4), 455-478. https://doi.org/10.1080/02673037.2019.1585521

[7] Zhao, X., **Yan, X.**, Yu, A., Van Hentenryck, P. (2020). Prediction and behavioral analysis of travel mode choice: A comparison of logit models and machine learning. *Travel Behavior and Society*, 20, 22-35. https://doi.org/10.1016/j.tbs.2020.02.003 (**Won the 2020 Outstanding Paper Award**)

[6] **Yan, X.**, Liu, X., Zhao, X. (2020). Using machine learning for direct demand modeling of ridesourcing services in Chicago. *Journal of Transport Geography*, 83, 102661. https://doi.org/10.1016/j.jtrangeo.2020.102661

[5] **Yan, X.** (2020). Evaluating household residential preferences for walkability and accessibility across three U.S. regions. *Transportation Research Part D: Transport and Environment*, 80, 102255. https://doi.org/10.1016/j.trd.2020.102255

[4] **Yan, X.**, Levine, J., Marans, R. (2019). The effectiveness of parking policies to reduce parking demand pressure and car use. *Transport Policy*, 73, 41-50. https://doi.org/10.1016/j.tranpol.2018.10.009

[3] **Yan, X.**, Levine, J., Zhao, X. (2019). Integrating ridesourcing services with public transit: An evaluation of traveler responses combining revealed and stated preference data. *Transportation Research Part C: Emerging Technologies*, 105, 683-696. https://doi.org/10.1016/j.trc.2018.07.029

[2] Goodspeed, R., **Yan, X.**, Hardy, J., Vydiswaran, V.G.V., Berrocal, V.J., Clarke, P., R., Gomez-Lopez, I.N., Romero, D., Veinot, T.C. (2018). Comparing the data quality of GPS devices and smartphones for

assessing relationships between place, mobility, and health: A field study. *Journal of Medical Internet Research mHealth and uHealth*, 6 (8), e168. `https://doi.org/10.2196/mhealth.9771`

[1] Hardy, J., Veinot, T. C., **Yan, X.**, Berrocal, V. J., Clarke, P., Goodspeed, R., Gomez-Lopez, I.N., Romero, D., Vydiswaran, V. G. V. (2018). User acceptance of location-tracking technologies in health research: implications for study design and data quality. *Journal of Biomedical Informatics*, 79, 7-19. `https://doi.org/10.1016/j.jbi.2018.01.003`

Work in Progress

Lyu, D., Liu, L., Campbell, C. Zhang, Y., **Yan, X.** Potentials and Limitations of Large-scale Mobile Device Location Data for Food Access Analysis. *Revised and Resubmitted*.

Dai, Y., Liu, L., Wang, K., L., M., **Yan, X.** Using Deep Learning and Google Street View Images to Assess Bus Stop Amenities. *Submitted*.

Duarte E., Lyu, D., Zheng, A., Merlin, L., Renne, J., Hoermann, S., **Yan, X.** Developing and validating a multi-criteria approach for locating multimodal mobility hubs. *Submitted*.

Lyu, D., **Yan, X.** The Impact of Transit Service Frequency and On-time Performance on Ridership: An Analysis of the Pre-Covid and Recovery Periods in Miami-Dade County. *Submitted*.

Chae, K., Kim, S., **Yan, X.** Exploring attitudinal group differences in preferences for shared e-scooter use and its integration with public transit. *Submitted*.

Liu, L., Li, X., **Yan, X.**, Pereira, R. Measuring Exposure to Extreme Heat in Public Transit Systems. *Submitted*.

Salehian M., Zorbas, V., Manjunatha, P., **Yan, X.**, Elefteriadou, L., Gladwin, K. Are Autonomous Shuttles Ready to Provide Regular Transit Service? *Submitted*.

Xu, X., **Yan, X.**, Fang, J., Bejleri, I. Neighborhood income and pedestrian and bicyclist safety in Florida. *Submitted*.

Qian, Y., Lyu, D., Zhang, W., **Yan, X.** Understanding E-Scooter Route Choice Behavior in Washington DC: A Path Size Logit Model. *In process*.

Qian. Y., Liu, L., **Yan, X.** Big data, big bias? On Factors Influencing Public Transit and Shared Micromobility Integration. *In process*.

Qian, Y., Polimetla, T., Sanchez, T., **Yan, X.** (2024). How do transportation professionals perceive the impacts of AI applications in transportation? A latent class cluster analysis. *Submitted*.

Peer-reviewed Book Chapters

[1] Goodspeed, R., **Yan, X.** (2017). Crowdsourcing street beauty: Visual preference surveys in the big data era. in Schintler, L.A. and Chen, Z. (Eds.), *Big Data for Regional Science (Routledge Advances in Regional Economics, Science and Policy* (pp.75-93). London and New York: Routledge.

Peer-reviewed Conference Proceedings

[24] Xu, X., **Yan, X.**, Fang, J., Bejleri, I. (2024). Examining Bicyclist Safety Inequity Across Neighborhoods in Florida. *The Transportation Research Board 2024 Annual Meeting*.

[23] Yin, Z., Rybarczyk, G., Zheng, A., Su, L., Sun, B., **Yan, X.** (2024). Shared micromobility as a first- and last-mile transit solution? Insights from a novel dataset. *The Transportation Research Board 2024 Annual Meeting.*

[22] Duarte, E., Zheng, A., Merlin, L., Renne, J., **Yan, X.** (2024). Planning for multimodal mobility hubs in the new mobility era: state of practice, research trends, and knowledge gaps. *The Transportation Research Board 2024 Annual Meeting.*

[21] Zhang, X., Zhao, X., **Yan, X.** (2024). Are mobile device location data biased for human mobility analysis? *The Transportation Research Board 2024 Annual Meeting.*

[20] Qian, Y., Polimetla, T., Sanchez, T., **Yan, X.** (2024). How do transportation professionals perceive the impacts of AI applications in transportation? A latent class cluster analysis. *The Transportation Research Board 2024 Annual Meeting.*

[19] Zheng, A., **Yan, X.** (2023). The location problem of EV charging stations: research trends, critical gaps, and a future agenda. *The Transportation Research Board 2023 Annual Meeting.*

[18] Huang, E., Yin, Z., Broaddus, A., **Yan, X.** (2023). Transit and shared e-scooter integration: Travel behavior insights from Los Angeles and Washington D.C.. *The Transportation Research Board 2023 Annual Meeting.*

[17] Su, L., Zhang, X., **Yan, X.**, Zhao, X. (2023). Exploring nonlinear relationships and preference heterogeneity in mode-switching behavior under a mobility-on-demand transit system. *The Transportation Research Board 2023 Annual Meeting.*

[16] Yang, W., Jafarzadehfadaki, M., **Yan, X.**, Zhao, X., Jin, X., Frolinch, D., Sisiopiku, V. (2023). Shared E-scooters: User Characteristics and Usage Patterns across Four U.S. Cities. *The Transportation Research Board 2023 Annual Meeting.*

[15] Su, L., **Yan, X.**, Zhao, X. (2022). Micromobility equity: A comparison of shared e-scooters and station-based bikeshare in Washington DC. *The Transportation Research Board 2022 Annual Meeting.*

[14] Zhao, X., Xu, Y., Lovreglio, R., Kuligowski, E., Nilsson, D., Cova, T., Wu, A., **Yan, X.** (2022). Estimating Wildfire Evacuation Decision and Departure Timing Using Massive GPS Data. *The Transportation Research Board 2022 Annual Meeting.*

[13] **Yan, X.**, Zhao, X., Broaddus, A., Johnson, J., Srinivasan, S. (2022). Exploring the potential of shared e-scooters as a last-mile complement to public transit. *The Transportation Research Board 2022 Annual Meeting.*

[12] **Yan, X.**, Bejleri, I., Zhai, L. (2022). A spatiotemporal analysis of transit accessibility to low-wage jobs in Miami-Dade County. *The Transportation Research Board 2022 Annual Meeting.*

[11] **Yan, X.**, Yang, W., Zhao, X. (2022). Do e-scooters complement or compete with public transit and station-based bikesharing? A case study of Washington DC. *The Transportation Research Board 2022 Annual Meeting.*

[10] Zhang, X., Zhou, Z., **Yan, X.**, Zhao, X. (2022). Examining Spatial Heterogeneity in the Determinants of Ridesourcing Trips with Explainable Machine Learning. *The Transportation Research Board 2022 Annual Meeting.*

[9] Fang, J., **Yan, X.**, Bejleri, I. (2022). Which Trip Destination Matters? Estimating the Influence of Land Use on Mode Choice for Home-Based Complex Tours. *The Transportation Research Board 2022 Annual Meeting.*

[8] Wang, X., **Yan, X.**, Zhao, X., & Cao, Z. (2021). Identifying latent shared mobility preference segments in low-resourced communities: Ride-hailing, fixed-route bus, and mobility-on-demand transit. *The Transportation Research Board 2021 Annual Meeting.*

[7] Steiner, R., Bejleri, I., Bai, X., Han, M., **Yan, X**. (2021). Partnerships between Agencies and Transportation Network Companies for Transportation-Disadvantaged Populations: Benefits, Problems, and Challenges. *The Transportation Research Board 2021 Annual Meeting.*

[6] Zhao, X., Wang, X., **Yan, X.**, & Cao, Z. (2021). Assessing preference heterogeneity for Mobility-on-Demand transit service in low-income communities: A latent segmentation based decision tree method. *The Transportation Research Board 2021 Annual Meeting.*

[5] Xu, Y., **Yan, X.**, Sisiopiku, V. P., Merlin, L. A., Xing, F., & Zhao, X. (2021). Micromobility trip origin and destination inference using General Bikeshare Feed Specification (GBFS) data. *The Transportation Research Board 2021 Annual Meeting.*

[4] Zhao, X., Zhou, Z., **Yan, X.**, & Van Hentenryck, P. (2020). Distilling black-box travel mode choice model for behavioral interpretation. *The Transportation Research Board 2020 Annual Meeting.*

[3] Zhao, X., Liu, X., & **Yan, X**. (2020). Modeling demand for ridesourcing services in the City of Chicago: A direct demand machine learning approach. *The Transportation Research Board 2020 Annual Meeting.*

[2] Xu, X., **Yan, X.**, and Dillahunt, T. (2019). Reaching hard-to-reach populations: an analysis of survey recruitment methods. *In Conference Companion Publication of the 2019 Conference on Computer Supported Cooperative Work and Social Computing* (pp. 428-432). `https://doi.org/10.1145/3311957.3359447`

[1] **Yan, X.**, Levine, J., Marans, R. (2019). The effectiveness of parking policies to reduce parking demand pressure and car use. *Proceedings of Transportation Research Board 98th Annual Meeting.*

Reports and Other Publications

[10] **Yan, X.**, Garces, S., Huang, S., Sowell, K., Campbell, C., Jiang, S., Duarte, E., Zhao, X. (2024). Transportation as a Social Determinant of Health During Hurricane Idalia. *Natural Hazards Center Quick Response Grant Report Series*, 349. Boulder, CO: Natural Hazards Center, University of Colorado Boulder.

[9] **Yan, X.**, Hunter, M., Polimetla, T., Robinson, K., Patel, A., Kuang, D., Zhao, X., Sanchez, T. (2023). Promoting equitable AI applications in transportation (No. STRIDE Project P6). `https://stride.ce.ufl.edu/wp-content/uploads/sites/153/2024/01/STRIDE-Final-Report-P6-Yan.pdf`

[8] Zhao, X., **Yan, X.**, Sisiopiku, V., Kaza, N., Kittner, N., McDonald, N., Jin, ... & Shroyer, N. (2023). Mobility-on-Demand Transit for Smart and Sustainable Cities (No. STRIDE Project D4). `https://rosap.ntl.bts.gov/view/dot/72843`

[7] Forrister, A., **Yan, X.**, Yin, Z., Zhao, X., Cova, T., Lovreglio, R., Nilsson, D., & Kuligowski, E. (2022). Survey of Evacuation Behavior in the 2021 Marshall Fire, Colorado. *Natural Hazards Center Quick Response Grant Report Series*, 349. Boulder, CO: Natural Hazards Center, University of Colorado Boulder. `https://hazards.colorado.edu/quick-response-report/survey-of-evacuation-behavior-in-the-2021-marshall-fire-colorado`

[6] Zhao, X., Sisiopiku, V., Steiner, R., Xu, Y., Liu, Y.,**Yan, D.**, ... & Suarez, J. (2022). Micromobility as a Solution to Reduce Urban Traffic Congestion (No. STRIDE Project B3). `https://rosap.ntl.bts.gov/view/dot/63270/dot_63270_DS1.pdf`

[5] Bejleri I., Zhang, Y., Zhai, L., and **Yan, X.**. (2020). Timely, dynamic, and spatially accurate roadway incident information to support real-Time management of traffic operations. *Florida Department of Transportation*, Report No. BDV31-977-111.

[4] Dillahunt, T., **Yan, X.** (2019). Mobility-on-demand versus fixed-route transit systems: An evaluation of traveler preferences in low-income communities. Poverty Solutions, University of Michigan. Policy Brief, March 2019.

[3] **Yan, X.** (2014). The mortgage interest deduction: The debate and possible reforms. *Agora: The Urban Planning and Design Journal of the University of Michigan*, 8, 84-93.

[2] Yu T., **Yan, X.** (2011). Creating a dynamic urban planning assessment system: to solve the problem of authoritarian plans. *Modern Urban Research* (In Chinese), 12, 22-27.

[1] **Yan, X.**, Yu, T., Wang, X. (2011). Headquarters economy in the context of globalization: A review. *Modern Urban Research* (In Chinese), 9, 91-96.

RESEARCH FUNDING

Collaborative Research SAI: Safe bicycle infrastructure: Preparing for an e-bike future
  · Funding source: National Science Foundation   2024-2027
  · My role: PI

Assessing and Mitigating Spatial Bias of Large-Scale Mobile Location Data for Human Mobility Analysis
  · Funding source: National Science Foundation   2024-2027
  · My role: co-PI

Central Florida Passenger Rail Preliminary Evaluation
  · Funder: Florida Department of Transportation   2024 - 2025
  · My role: PI

Strategies to Improve Application of Research Results in the Research Life Cycle
  · Funder: The National Cooperative Highway Research Program (NCHRP)   2024 - 2025
  · My role: UF Co-PI

A synthesis study of electric vehicles' costs, economic impacts, and infrastructure implications
  · Funder: Florida Department of Transportation   2024
  · My role: Co-PI

Transportation as a Social Determinant of Health During Hurricane Idalia
  · Funder: Natural Hazards Center   2023 - 2024
  · My role: PI

Center for Equitable Transit-Oriented Communities, Tier-1 University Transportation Center
  · Funder: U.S. Department of Transportation   2023 - 2028
  · My role: UF Co-PI

Scan and Review of Autonomous Shuttle Operations and Other Personal Transport
  · Funder: Florida Department of Transportation   2023 - 2024
  · My role: Co-PI

Leveraging Mobility Data Analytics to Inform Mobility Hub Development in Florida
  · Funder: Florida Department of Transportation   2023 - 2024
  · My role: PI

Federal Transit Administration (FTA) Research to Practice Initiative Grant
· Funder: Federal Transit Administration   2023 - 2024
· My role: UF PI

Survey of Evacuation Behavior in the 2021 Boulder County, CO Grass Fires
· Funding source: Natural Hazards Center   2022
· My role: PI

Promoting Equitable AI in Transportation
· Funder: USDOT Region 4 STRIDE UTC center   2022 - 2023
· My role: PI

Investigating Shared E-scooters as a First/Last Mile Connection to Transit
· Funder: Ford Motor Company   2021 - 2022
· My role: Co-PI

Mobility-on-Demand Transit for Smart and Sustainable cities
· Funder: USDOT Region 4 STRIDE UTC center   2020 - 2021
· My role: Co-PI

Mobilizing Accessibility in Detroit and Ypsilanti
· Funder: Poverty Solutions University of Michigan   2018 - 2019
· My role: Co-PI

SELECTED CONFERENCE PRESENTATIONS

"Shared micromobility as a last-mile transit solution? Spatiotemporal insights from a novel dataset." *The Inagural U.S. Department of Transportation Future of Transportation Summit*, Washington DC, August 13-15, 2024.

"Measuring Extreme Heat Exposure in Public Transit Systems in Florida, US." *The 2024 Gulf of Mexico Conference*, Tampa, FL, February 19-22, 2024.

"An analytical framework for bus fleet electrification and e-bus charging station planning: A case study of Gainesville Regional Transit System." *Annual Conference of the American Association of Geographers (AAG)*, Denver, CO, March 23-27, 2023.

"E-scooters as a last-mile feeder mode to public transit: how, where, and when." *The 16th International Association for China Planning (IACP) Annual Conference*, virtually from Wuhan, China, June 23-27, 2022.

"Micromobility equity: A comparison of shared e-scooters and station-based bikeshare in Washington DC." *7th UTC Conference for the Southeastern Region*, Boca Raton, Florida, March 24-25, 2022.

"Exploring the potential of shared e-scooters as a last-mile complement to public transit." *7th UTC Conference for the Southeastern Region*, Boca Raton, Florida, March 24-25, 2022.

"Do e-scooters fill mobility gaps and promote equity? A spatiotemporal analysis using open big data." *Association of Collegiate Schools of Planning (ACSP) Annual Conference*, October 7-8 & 21-23, 2021.

"Do e-scooters fill mobility gaps and promote equity before and during COVID-19? A spatiotemporal analysis using open big data." *The 15th International Association for China Planning (IACP) Annual Conference*, virtually from Nanjing, China, September 11-12, 2021.

"Do e-scooters fill mobility gaps before and during COVID-19? A spatiotemporal analysis using open big data." *2021 World Symposium on Transport and Land Use Research (WSTLUR)*, virtually from Portland, Oregon, August 9-11, 2021.

"Evaluating household residential preferences for walkability and accessibility across three U.S. regions." *The 14th International Association for China Planning (IACP) Annual Conference*, virtually from Shenzhen, China, December 5-13, 2020.

"Using machine learning for direct demand modeling of ridesourcing services in Chicago." *The Transportation Research Board (TRB) 99th Annual Meeting*, Washington DC, January 12-16, 2020

"Mobility-on-demand versus fixed-route transit systems: An evaluation of traveler preferences in low-income communities." *Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Greenville, SC, October 24-27, 2019.

"The value of accessibility in residential location choice." *The 13th International Association for China Planning (IACP) Annual Conference*, Chengdu, China, June 14-15, 2019.

"The effectiveness of parking policies to reduce parking demand pressure and car use." The Transportation Research Board (TRB) 98th Annual Meeting, Washington DC, January 13-17, 2019.

"The value of accessibility in residential location choice." *Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Buffalo, NY, October 24-28, 2018.

"Integrating ridesourcing services with public transit: An evaluation of traveler responses combining revealed and stated preference data." *The 12th International Association for China Planning (IACP) Annual Conference*, Xi'an, China, June 29-30, 2018.

"Efficiency and equity issues in the use of Chinese Housing Provident Fund: Evidence from seven major cities." *Association of Collegiate Schools of Planning (ACSP) Annual Conference*, Denver, CO, October 11-15, 2017.

"Rethinking agglomeration economies, accessibility, and productivity: the importance of urban form." *Annual Conference of the American Association of Geographers (AAG)*, Boston, MA, April 5-9, 2017.

INVITED TALKS, ROUNDTABLES, AND WORKSHOPS

Invited Talks

"Integrating Big and Small Data to Understand Transit and Micromobility Interactions and Promote Their Integration", *Next-Gen Transportation Seminar Series*, Department of Civil, University of Michigan, January 18, 2024

"Leveraging Data Science and AI for Smart and Equitable Public Transportation Systems", *Federal Transit Administration*, January 11, 2024

"Strategies for Promoting Shared Micromobility to Complement Public Transit", *Zube Lecture series*, Department of Landscape Architecture and Regional Planning, University of Massachusetts, Amherst, September 28, 2023

"Equity in New Mobility Services: The Cases of Mobility-on-demand Transit and Shared Micromobility", *The 25th Chines Overseas Transportation Association Winter Symposium*, January 8, 2023.

"Toward Accessibility-based Planning", *Occasional Transport Research Talks* hosted by Nick Klein (Cornell Univ.) & Kelcie Ralph (Rutgers Univ.), April 15, 2022.

"Leveraging Spatial Big Data and AI for Sustainable and Equitable Transportation." *Department of Civil & Coastal Engineering, University of Florida*, March 15, 2022.

"Leveraging Spatial Data Science for Smart and Equitable Public Transportation." *Department of Geography & Geoinformation Science, George Mason University*, February 11, 2022.

"Urban Planning in the Digital Era: Leveraging Data Science for Smart and Equitable Transportation." *Department of Geography, Planning & Sustainability, Rowan University*, February 8, 2022.

"Urban Planning in the Digital Era: Leveraging Data Science for Smart and Equitable Transportation." *Department of Community & Regional Planning, University of Nebraska-Lincoln*, February 3, 2022.

"Urban Planning in the Digital Era: Leveraging AI and Data Science for Smart and Equitable Transportation." *College of Design, Construction and Planning, University of Florida*, January 31, 2022.

"Machine Learning in Travel Behavior Research." *Transportation Research Board Standing Committee AMS50 Webinar Series*, November 12, 2021.

"Do e-scooters fill mobility gaps and promote equity before and during COVID-19? A spatiotemporal analysis using open big data." *UF Biocomplexity Engineering Group Seminars*, October 19, 2021.

"Exploring the potential for public transit and share micromobility integration." *Ford Motor Company Robotics and Mobility Research EMM/SAR Meeting Series*, September 30, 2021.

"The effectiveness of parking policies to reduce parking demand pressure and car use." *511NY Rideshare Car Free Day Webinar*, September 14, 2021.

"Using big data and machine learning for transportation research." *University of Florida Student Chapter for the Institute of Transportation Engineers*, March 4, 2021.

"The promises and pitfalls of machine learning and big data: Reflectively leveraging data science for transportation planning." *Department of City and Regional Planning, University of North Carolina, Chapel Hill*, November 30, 2020.

"Ridesourcing as a solution to the last-mile travel problem: Evidence from stated preference data." *Next Generation Transportation Systems Seminar*. University of Michigan, Ann Arbor, January 17, 2018.

Panels, Roundtables, and Workshops

"Transit Agency-University Partnerships" (Moderated by Brendon Hemily, other panelists include John Levin and Keith Sirisack). *The 2024 Research-to-Practice Transit Symposium*, October 24, 2024.

"Applying AI Methods to Mobility" (Moderated by Renee Autumn Ray, other panelists include Nicole Dupuis, Robert Sheehan, Philip Pugliese). Workshop on *Accelerating Mobility Innovation: Overcoming Challenges and Re-envisioning Opportunities*. Transportation Research Board 2024 Meeting, January 7, 2024.

"Exploring Micromobility: Research on Safety, Equity, Transit Integration, and Testbeds," pre-organized RiM session (Moderated by Wenwen Zhang, other panelists include Hannah Younes, Ralph Buehler, Janille Smith-Colin, and Greg Griffin). *Association of Collegiate Schools of Planning (ACSP) 2023 Chicago Annual Conference*, October 19-21, 2023.

"Micromobility" Panel Session (Moderated by Nikhil Kaza, other panelists include Mike Fortier, Barbara Godwin, and Will Sowers). *UNC Clean Tech Summit 2022*, Chapel Hill, North Carolina, March 30, 2022.

"Exploring nonlinear relationships with machine learning." Roundtable (Moderated by Jason Cao, other panelists include Tao Tao and Sadegh Sabouri). *Association of Collegiate Schools of Planning (ACSP) Annual Conference*, October 7-8 & 21-23, 2021.

"Exploring nonlinear relationships with machine learning." Roundtable (Moderated by Jason Cao, other panelists include Tao Tao, Kailai Wang, and Wenjia Zhang). *The 15th International Association for China Planning (IACP) Annual Conference*, virtually from Nanjing, China, September 11-12, 2021.

"Extracting travel behavioral insights from black-box machine-learning models." (jointly presented with Xilei Zhao) *Workshop on Machine Learning Methods to Calibrate Integrated Land Use and Transport Models.* Georgia Institute of Technology, Atlanta. June 13-14, 2019.

TEACHING

Instructor

CGN 4905/6905 Sustainable Transportation and Public Transit, UF
· Enrollment: 16; Evaluations: 4.74/5   Fall 2023

CGN 4905/6905 Applied Data Science in Civil & Environmental Engineering, UF
· Enrollment: 4; Evaluations: 4.90/5   Fall 2023
· Enrollment: 5; Evaluations: 4.75/5   Fall 2022
· Enrollment: 12; Evaluations: 4.68/5   Fall 2021

Guest Lecturer

Smart Practicum Planning Studio, University of Texas, Austin   September 19, 2023
· Presentation title: *Planning Smart Micromobility Systems Using Open Big Data*

Highway Safety Analysis, University of Florida   Nov 19, 2020
· Presentation title: *Spatial big data applications in travel safety research and practice*

Transportation Data Analytics, University of Florida   Oct 20, 2020
· Presentation title: *Spatial data analysis and mapping with R*

Colloquium, University of Florida   Sep 30, 2019
· Presentation title: *Designing and conducting a dissertation research project*

Other Teaching Experience

Graduate Student Instructor for *Introduction to Statistics for Urban Planning*, UMich   Fall 2014
· Teaching Evaluations: 4.73/5

Teacher for *AP Statistics*, *GRE/GMAT Analytical Writing*, New Oriental School, China   2012 - 2013
· Average rating: 4.7/5.0

Engaged Pedagogy Initiative Fellow   Fall 2014
· LSA Community-Engaged Academic Learning, University of Michigan

STUDENTS MENTORED AND SUPERVISED

Doctoral Student Advisees
· Duanya Lyu (PhD student in Civil Engineering, Fall 2023 -)
· Yiheng Qian (PhD student in Civil Engineering, Fall 2023 -) · Faizur Rahman Himel (PhD student in Civil Engineering, Fall 2024 -)

Master's Student Advisees
· Jiawei You (Civil Engineering, Spring 2026')
· Varshini Kateelu (Civil Engineering, Spring 2025')
· Scott Fosser (Civil Engineering, Fall 2023')
· Anran Zheng (Civil Engineering, Summer 2023')

Master's Thesis Committee Chair/co-chair
· Christopher Wolf (Urban and Regional Planning)

Master's Thesis Committee
· Daeyun Gi (Mechanical and Aerospace Engineering, Summer 2023')

Independent/Directed Study Students
· Shoujing Ke (Undergrad in Computer Science, Fall 2022')
· Harrison Stark (Undergrad in Computer Science, Spring 2023')

Student Research Assistants (RAs)
Current RAs:
·   Ksenia Velichko (Undergrad in Computer Science)
·   Eliana Duarte (Undergrad in Civil Engineering, selected for the McNair Scholars Program)
·   Mateo Nader (Undergrad in Civil Engineering)
·   Aubrey Dolbeck (Undergrad in Geography)
·   Yilong Dai (Master's student in Computer Science)
·   Kaiyue Wang (Master's student in Computer Science)

Former RAs:
·   Shoujing Ke (Undergrad in Computer Science)
·   Tejaswi Polimetla (Undergrad in Economics&Geography)
·   Yuxuan Zhang (Master's student in Computer Science)
·   Ruoyang Xiong (Master's student in Computer Science)
·   Amay Patel (Undergrad in Computer Science)
·   Lin Su (M.S. in Civil Eng, admitted to UT Austin Transportation Engineering PhD program)
·   Erik Huang (Undergrad in Civil Eng, admitted to Northwestern Transportation Eng PhD program)
·   Qi Zheng (Undergrad in Biology)
·   Jack Rummler (Undergrad in Sustainability Studies)

FACULTY SERVICE

Graduate Student Admissions
·   In charge of the Transportation Engineering graduate student admissions, UF   2023 -

Faculty Search Committee
·   Computer and Information Science and Engineering, UF   2022 - 2023

Steering Committees
·   Internal Steering Committee (Transit Lead), UF Transportation Institute, UF   2022 -

PROFESSION SERVICES & AFFILIATIONS

Transportation Research Board (TRB) Committee Services
- AP020 Innovative Public Transportation Services & Technologies:
  Committee Member & Research Coordinator   2022 -
- AED30 Information Systems & Technology:
  Committee Member   2022 -

Editoral Board Member, *Transportation Research Part D: Transport and Environment*   2023 -

Board of Directors Member, *International Association for China Planning*   2019 - 2023

Professional Membership
Member of Transportation Research Board (TRB)
Member of Florida Public Transportation Association

Panel Member/Proposal Reviewer
- *Panel member* for National Cooperative Highway Research Program (NCHRP) Project 07-34:
  Toward Artificial Intelligence-Enabled Decision Support Systems for TSMO Applications   2022-
- *Panel member* for Transit Cooperative Research Program (TCRP) Project H-59:
  Racial Equity, Black America and Public Transportation   2021 - 2023
- *Panel member* for NSF CMMI/CIS Program   2023
- *Proposal reviewer* for Mineta Transportation Insitute   2023
- *Ad hoc reviewer* for NSF Economics Program   2021
- *Proposal reviewer* for USDOT Tier-1 University Transportation Center CTEDD   2019

Conference/Symposium/Workshop Organizing Committee Member
- *2023 Research-to-Practice Transit Symposium*, Caltrans/UFTI/APTA/MTI/UC Davis   2023
- *XPOTENTIAL 2022*, Association for Unmanned Vehicle Systems International (AUVSI)   2022
- TRB 101st Annual Conference Young Members Coordinating Council "Early Academic Successful
  Careers: Resources and Advice" Workshop   2022
- *2022 Research-to-Practice Transit Symposium*, Caltrans/UFTI/APTA/T-Score UTC   2022
- *2021 Research-to-Practice Transit Symposium*, Caltrans/UFTI/APTA/T-Score UTC   2021

Area Editor, CICTP 2023, *Chinese Overseas Transportation Association (COTA)*   2023

Manuscript/Report Reviewer
Transportation Research Part A: Policy and Practice, Transportation Research Part D: Transport and Environment, Journal of the American Planning Association, Journal of Transport Geography, Transportation, Transport Policy, Travel Behavior and Society, Transportmetrica A: Transport Science, Journal of Land Use and Transport, Scientific Reports, Housing Studies, Environment and Planning B: Urban Analytics and City Science, Geoforum, Sustainable Cities and Society, Urban Rail Transit, Safety Science, TRB Annual Meeting, IACP Annual Meeting, National Institute of Congestion Reduction

Moderator/Discussant/Facilitator
- Moderator for the "Bus Stop Spacing" Session in *2023 Research-to-Practice Transit Symposium*,
  October 25, 2023.
- Discussant for the "Who's Riding the Bus" Session in *Association of Collegiate Schools of Planning 2023 Chicago Annual Conference*, October 20, 2023.
- Moderator for the "Digital Future, Digital Connectivity, and Cybersecurity" Session in *2021 Research-to-Practice Transit Symposium*, October 20, 2023.

SERVICE TO SOCIETY

City of Gainesville Citizen Transit Advisory Committee (CTAC)
· Providing feedback to the RTS Transit Development Plan   2024
· Providing feedback to the Transit Route Restoration Plan   2024

City of Gainesville Climate Action Plan Development Team
· Participating in the city's climate action plan creation process   2023 - 2024

MEDIA

Mentions in the Press / Media Coverage of Research

Herbert, Kiran. (December 5, 2023). Shared E-Scooters As a Last-Mile Transit Solution? *Better Bike Share Partnership.* `https://betterbikeshare.org/2023/12/05/shared-e-scooters-as-a-last-mile-transit-solution/`

Diaz, Robert. (March 3, 2023). Gainesville residents contemplate people mover system. *WUFT.* `https://www.wuft.org/news/2023/03/03/gainesville-residents-contemplate-people-mover-system/`

Spin Blog Post. (February 10, 2022). New Research Shows Positive Impacts of Micromobility May Be Underestimated. *Spin (Ford Mobility).* `https://www.spin.app/blog-posts/new-research-shows-positive-impacts-of-micromobility-may-be-underestimated`

Herbert, Kiran. (May 12, 2021). Xiang Yan wants to make micromobility better. *Better Bike Share Partnership.* `https://betterbikeshare.org/2021/05/12/xiang-yan-wants-to-make-micromobility-better/`

lonescu, Diana. (April 8, 2021). How e-scooters can complement public transit. *Planetizen.* Available at: `https://www.planetizen.com/news/2021/04/112885-how-e-scooters-can-complement-public-transit`

Kuntzman, Gersh. (March 4, 2021). E-Scooters Are Best for Short Trips to Transit, Shops: Study. *Streetsblog NYC.* Available at: `https://nyc.streetsblog.org/2021/03/04/e-scooters-are-best-for-short-trips-to-transit-shops-study/`

Galoustian, Gisele. (March 1, 2021). Scoot over! Study reveals E-scooter use in Washington D.C. *Science Daily.* Available at: `https://www.sciencedaily.com/releases/2021/03/210301091147.htm`

Guest, Greta. (August 28, 2018). Commuters: Ridesourcing could fix public transit. *Michigan News.* Available at: `https://news.umich.edu/commuters-ridesourcing-could-fix-public-transit/`

Opinion Pieces

Yan, X. (Apri 5, 2021). Make e-scooters work with transit, not against it. *Greater Greater Washington.* Available at: `https://ggwash.org/view/80884/make-e-scooters-work-with-transit-not-against-it`

STATISTICAL & COMPUTATIONAL METHODS TRAINING

· *Neural Networks for Computing*	Depart. of Computer and Information Science and Engineering, UF
· *Database Management Systems*	Depart. of Computer and Information Science and Engineering, UF
· *Transportation Data Analytics (Machine learning)*	Department of Civil Engineering, UMich
· *Clustered and Longitudinal Analysis*	Department of Biostatistics, UMich
· *Spatial Statistics*	Department of Biostatistics, UMich
· *Maximum Likelihood Estimation I: Generalized Linear Models*	ICPSR Summer Program, UMich
· *Quantitative Methods for Program Evaluation*	Ford School of Public Policy, UMich

· *Quantitative Planning Methods*   Department of Urban and Regional Planning, UMich
· *Introduction to Probability Theory and Statistics*   Nanjing University, China