Xiang 'Jacob' Yan

 \diamond Personal website: https://jacobyan0.github.io/

EDUCATION

University of Michigan, Ann Arbor, Michigan						
· Ph.D. in Urban and Regional Planning (Transportation Technology & Geospatial Analytics	s) 2	2019				
\cdot Master's in Urban Planning (Housing, Community, and Economic Development)	2	2015				
University of Florida, Gainesville, Florida						
\cdot M.S. in Civil Engineering (Transportation Engineering)	2	2021				
Nanjing University, Nanjing, China						
· B.E. in Urban Planning (Economic Geography)	2	2013				
EMPLOYMENT						
Assistant Professor, Civil & Coastal Engineering, University of Florida	202	22 -				
Research Assistant Professor, Civil & Coastal Engineering, University of Florida	2021 - 2	2022				
Postdoctoral Associate, Urban and Regional Planning, University of Florida	2019 - 2	2020				
Graduate Student Research Assistant, Urban & Regional Planning, Univ. of Michigan	2015 - 2	2019				
GIS Analyst, School for Environment & Sustainability, University of Michigan	2014 - 2	2015				
Data Analyst, Department of Institutional Research, Washtenaw Community College	2	2014				
Instructor, Nanjing New Oriental School, China	2012 - 2	2013				
AWARDS, HONORS, AND FELLOWSHIPS						
Outstanding Committee Research Coordination Leadership, Transportation Research Board	2	2025				
Innovative Public Transportation Services and Technologies Committee (AP020) Equity Paper Award, Transportation Research Board Bicycle Transportation Committee (ACH20)						
Outstanding Reviewer 2022, Transportation Research Part D: Transport and Environment						
Best Dissertation Award, World Society for Transport and Land Use Research		2023 2021				
2020 Outstanding Paper Award, Travel Behaviour and Society						
Distinguished Dissertation Award in Urban and Regional Planning, University of Michigan						
Rackham One-Term Dissertation Fellowship, University of Michigan						
AICP Student Project Award, American Planning Association						
Honorable Mention, Karen Polenske Best Student Paper Award, Intl. Assoc. for China Plan	_	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	2	2011				

PUBLICATIONS

(Note: Student co-authors are underlined.)

- [32] 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. *Transportation*. https://doi.org/10.1007/s11116-025-10588-8
- [31] <u>Dai, Y.</u>, Liu, L., <u>Wang, K.</u>, Li, M., & **Yan, X.** Using Computer Vision and Street View Images to Assess Bus Stop Amenities. *Computers, Environment, and Urban Systems*. 117, 102254. https://doi.org/10.1016/j.compenvurbsys.2025.102254
- [30] 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
- [29] 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
- [28] Sanchez, T. W., Qian, Y., & Yan, X. (2024). AI Applications in Transportation and Equity: A Survey of US Transportation Professionals. Future Transportation, 4(4), 1161-1176. https://doi.org/10.3390/futuretransp4040056
- [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). Spatial equity of micromobility systems: A comparison of shared E-scooters and docked bikeshare in Washington DC. *Transport Policy*, 145, 25-36. https://doi.org/10.1016/j.tranpol.2023.10.008
- [25] <u>Huang, E., Yin, Z.</u>, Broaddus, A., & **Yan, X.** (2024). Shared e-scooters as a last-mile transit solution? 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: Journal of the Transportation Research Board*, 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*, 101, 103088, 1-12. 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/10.1080/01944363.2020.18
- [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 rides-ourcing 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, 1-14. 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

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

- [33] Qian, Y., Liu, L., Yan, X. (2025). Big data, big bias? On Factors Influencing Public Transit and Shared Micromobility Integration. The Transportation Research Board 2025 Annual Meeting.
- [32] Qian, Y., Lyu, D., Zhang, W., Yan, X. (2025). Understanding E-Scooter Route Choice Behavior in Washington DC: A Path Size Logit Model. The Transportation Research Board 2025 Annual Meeting.
- [31] <u>Duarte, E., Lyu, D., Zheng, A., Merlin, L., Renne, J., Hoermann, S. Yan, X.</u> (2025). Developing and Validating a Multi-Criteria Approach for Locating Multimodal Mobility Hubs. *The Transportation Research Board 2025 Annual Meeting*.
- [30] Lyu, D., Yan, X. (2025). 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. *The Transportation Research Board 2025 Annual Meeting*.
- [29] <u>Lyu, D.</u>, Liu, L., Campbell, C., <u>Zhang, Y.</u>, **Yan, X.** (2025). Potentials and Limitations of Large-Scale Mobile Device Location Data for Food Access Analysis. *The Transportation Research Board 2025 Annual Meeting*.
- [28] <u>Dai, Y.</u>, Liu, L., <u>Wang, K.</u>, Li, M., **Yan, X.** (2025). Using Deep Learning and Google Street View Images to Assess Bus Stop Amenities. *The Transportation Research Board 2025 Annual Meeting*.

- [27] Salehian, M., Zorbas, V., Manjunatha, P., **Yan, X.**, Elefteriadou, L., Gladwin, K. (2025). Are Autonomous Shuttles Ready to Provide Regular Transit Service? *The Transportation Research Board 2025 Annual Meeting*.
- [26] Liu, L., Li, X., Yan, X., Pereira, R.H.M. (2025). Measuring Exposure to Extreme Heat in Public Transit Systems. The Transportation Research Board 2025 Annual Meeting.
- [25] Chae, K.S., Kim, S.H., **Yan, X.** (2025). Exploring Attitudinal Group Differences in Preferences for Shared E-scooter Use and Its Integration with Public Transit. *The Transportation Research Board 2025 Annual Meeting*.
- [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] <u>Duarte, E., Zheng, A.,</u> 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] <u>Huang, E., Yin, Z.</u>, 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

- [11] Yan, X., Lyu, D., Merlin, L., Duarte, E., Renne, J., Hoermann, S. Leveraging Mobility Data Analytics to Inform Mobility Hub Development in Florida. Florida Department of Transportation, Report No. BED31 TWO 977-14.
- [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-mar shall-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 road-way 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

- · Amount: \$610,000
- · 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

- · Amount: \$399,572
- · PI: Xilei Zhao, University of Florida
- · My role and share of funding: co-PI (\$180,000)

Central Florida Passenger Rail Preliminary Evaluation

· Funder: Florida Department of Transportation

2024 - 2025

- · Amount: \$189,989
- · 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

- · Amount: \$400,000
- · Team: CALSTART (lead), University of Florida
- · My role and share of funding: UF Co-PI (\$30,000)

A synthesis study of electric vehicles' costs, economic impacts, and infrastructure implications

· Funder: Florida Department of Transportation

2024

- · Amount: \$272,711
- · PI: James Trainham, University of Florida
- · My role and share of funding: Co-PI (\$20,000)

Transportation as a Social Determinant of Health During Hurricane Idalia

· Funder: Natural Hazards Center

2023 - 2024

- · Amount: \$36,500
- · Collaborators: Catherine Campbell (UF), Xilei Zhao (UF), & Shih-Kai "Sky" Huang (Jacksonville State University)
- · My role: PI

Center for Equitable Transit-Oriented Communities, Tier-1 University Transportation Center

· Funder: U.S. Department of Transportation

2023 - 2028

- \cdot Collaborators: University of New Orleans (lead), University of Utah, Florida Atlantic University, University of Colorado Denver
- · My role and share of funding: UF Co-PI (about \$150k-\$200k per year)

Scan and Review of Autonomous Shuttle Operations and Other Personal Transport

· Funder: Florida Department of Transportation

2023 - 2024

- · Amount: \$171,600
- · PI: Lily Elefteriadou, University of Florida
- · My role and share of funding: Co-PI (\$20,000)

Leveraging Mobility Data Analytics to Inform Mobility Hub Development in Florida

· Funder: Florida Department of Transportation

2023 - 2024

- · Amount: \$250,000
- · My role: PI

Federal Transit Administration (FTA) Research to Practice Initiative Grant

· Funding source: Federal Transit Administration

2022 - 2024

- · Amount: \$545,000
- · Team: CALSTART (lead), Morgan State University, University of Florida
- · My role and share of funding: UF PI (\$65,000)

Survey of Evacuation Behavior in the 2021 Boulder County, CO Grass Fires

· Funding source: Natural Hazards Center

2022

- · Amount: \$5,000
- · Collaborators: Xilei Zhao (UF), Thomas Cova (Univ. of Utah), Erica Kuligowski (Royal Melbourne Institute of Technology), Daniel Nilsson (Univ. of Canterbury), Ruggiero Lovreglio (Massey Univ.)
- · My role: PI

Promoting Equitable AI in Transportation

· Funder: USDOT Region 4 STRIDE UTC center

2022 - 2023

· Amount: \$130,000

- · Co-PIs: Xilei Zhao (UF), Michael Hunter (Georgia Tech)
- · My role: PI

Investigating Shared E-scooters as a First/Last Mile Connection to Transit

· Funder: Ford Motor Company

2021 - 2022

- · Amount: \$35,000
- · Collaborators: Xilei Zhao (UF, PI), Andrea Broaddus (Ford PI)
- · My role and share of funding: Co-PI ($\sim 80\%$)

Mobility-on-Demand Transit for Smart and Sustainable cities

· Funder: USDOT Region 4 STRIDE UTC center

2020 - 2021

- · Amount: \$413,430
- · PI/co-PIs: Xilei Zhao (UF, PI), Noreen McDonald, Nikhil Kaza, Noah Kittner (UNC Chapel Hill), Virginia Sisiopiku (Univ. of Alabama at Birmingham), Xia Jin (Florida International University), Jeffrey Lamondia (Auburn University), Andrea Broaddus (Ford Motor Company)
- · My role and share of funding: Co-PI (\sim 18%)

Mobilizing Accessibility in Detroit and Ypsilanti

· Funder: Poverty Solutions University of Michigan

2018 - 2019

- · Amount: \$50,000
- · PI: P. Van Hentenryck (transferred to T. Dillahunt in Aug 2018)
- · My role and share of funding: Lead researcher ($\sim 50\%$)

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

"AI and Data Science Applications for Public Transportation Systems," Next-Gen Transportation: Resilience, Sustainability, & Emerging Technology in Transportation, Women's Transportation Seminar UF Chapter, November 1, 2024

"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 Chinese 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 \cdot Enrollment: 15; Evaluations: 4.74/5	Fall 2023
CGN 4905/6905 Applied Data Science in Civil & Environmental Engineering, UF · Enrollment: 18; Evaluations: 4.88/5 · Enrollment: 4; Evaluations: 4.90/5 · Enrollment: 5; Evaluations: 4.75/5 · Enrollment: 12; Evaluations: 4.68/5	Fall 2024 Fall 2023 Fall 2022 Fall 2021
Guest Lecturer	
CRP395 Smart City Practicum Planning Studio, University of Texas, Austin September Presentation title: Planning Smart Micromobility Systems Using Open Big Data	otember 19, 2023
TTE6315 Highway Safety Analysis, University of Florida · Presentation title: Spatial big data applications in travel safety research and practice	Nov 19, 2020
CGN6905 Transportation Data Analytics, University of Florida . Presentation title: Spatial data analysis and mapping with R	Oct 20, 2020
Colloquium, University of Florida · Presentation title: Designing and conducting a dissertation research project	Sep 30, 2019
Other Teaching Experience	

ether reaching 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

Fall 2014

Engaged Pedagogy Initiative Fellow

· 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 -)

Doctoral Committees

· Goshtasb Shahriari Mehr (Construction Management, December 2025)

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

- · Tarun Reddy Nimmala (M.S. in Computer Science, Spring 2025')
- · Nikilesh Indurthi (M.S. in Computer Science, Spring 2025')
- · Yilong Dai (M.S. in Computer Science, Fall 2024')
- · 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 - 2024
 Faculty Search Committee UF Transportation Institute Director, College of Engineering, UF AI endowed professionship, Computer & Information Science & Engineering, UF Opportunity hire in AI, Computer & Information Science & Engineering, UF 	2024 - 2025 2022 2022
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 AED30 Information Systems & Technology: Committee Member 	2022 - 2022 -
Editorial Board Member, Transportation Research Part D: Transport and Environm	ent 2023 -
Young Editorial Board Member, Urban Rail Transit	2023 - 2025
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 Proposal reviewer for USDOT Tier-1 University Transportation Center REAT Panel member for National Cooperative Highway Research Program (NCHRP) Project Toward Artificial Intelligence-Enabled Decision Support Systems for TSMO Applicated Panel member for Transit Cooperative Research Program (TCRP) Project H-59: Racial Equity, Black America and Public Transportation Panel member for NSF CMMI/CIS Program Proposal reviewer for Mineta Transportation Insitute Ad hoc reviewer for NSF Economics Program Proposal reviewer for USDOT Tier-1 University Transportation Center CTEDD 	
 Conference/Symposium/Workshop Organizing Committee Member Annual Research-to-Practice Transit Symposium, Caltrans/UFTI/APTA/MTI/UC D XPOTENTIAL 2022, Association for Unmanned Vehicle Systems International (AUX) TRB 101st Annual Conference Young Members Coordinating Council "Early Academ Careers: Resources and Advice" Workshop 	VSI) 2022
Area Editor, CICTP 2023, Chinese Overseas Transportation Association (COTA)	2023
Manuscript/Report Reviewer Transportation Research Part A: Policy and Practice, Transportation Research Part I Environment, Journal of the American Planning Association, Journal of Transport G portation, Transport Policy, Travel Behavior and Society, Transportmetrica A: Transport of Land Use and Transport, Scientific Reports, Housing Studies, Environment and Plansport	leography, Trans- Science, Journal

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 "Transit Equity and Workforce Development" Session in 2024 Research-to-Practice Transit Symposium,
 - October 23, 2024.
- · 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

Kaufman, Natalie. (January 23, 2025). Florida ride-share industry to see automated disruption. *The Independent Florida Alligator*. https://www.alligator.org/article/2025/01/ride-share-industry-meets-robota xi

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-impact s-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, U		Neural Networks	for	Computing	Depart.	of	Computer	and	Information	Science	and	Engine	ering,	U.	\mathbf{F}
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- · 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