

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 and Regional 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

Outstanding Reviewer 2022, *Transportation Research Part D: Transport and Environment* 2023

Best Dissertation Award, *World Society for Transport and Land Use Research* 2021

Outstanding Paper Award 2020, *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

- [23] **Yan, X.**, Zhao, X., Broadus, 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>

- [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.ijdr.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., Dillahun, 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>

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

- [2] Xu, X., **Yan, X.**, and Dillahun, 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

- [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] Dillahun, 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

<i>Leveraging Mobility Data Analytics to Inform Mobility Hub Development in Florida</i>	Feb 2023 -
<ul style="list-style-type: none"> · Amount: \$250,000 · Funder: Florida Department of Transportation · My role: PI 	
<i>Federal Transit Administration (FTA) Research to Practice Initiative Grant</i>	Oct 2022 - Sep 2023
<ul style="list-style-type: none"> · Amount: \$545,000 · Funding source: Federal Transit Administration · Team: CALSTART (lead), Morgan State University, University of Florida · My role and share of funding: UF PI (\$25,000) 	
<i>Survey of Evacuation Behavior in the 2021 Boulder County, CO Grass Fires</i>	Mar 2022 - Sep 2022
<ul style="list-style-type: none"> · Amount: \$5,000 · Funding source: Natural Hazards Center Weather Ready Research Award Program · 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 	
<i>Promoting Equitable AI in Transportation</i>	Apr 2022 - Jul 2023
<ul style="list-style-type: none"> · Amount: \$130,000 · Funder: USDOT Region 4 STRIDE UTC center · Co-PIs: Xilei Zhao (UF), Michael Hunter (Georgia Tech) · My role: PI 	
<i>Investigating Shared E-scooters as a First/Last Mile Connection to Transit</i>	Oct 2021 - Sep 2022
<ul style="list-style-type: none"> · Amount: \$35,000 · Funder: Ford Motor Company · Collaborators: Xilei Zhao (UF, PI), Andrea Broaddus (Ford PI) · My role and share of funding: Co-PI (~80%) 	
<i>Mobility-on-Demand Transit for Smart and Sustainable cities</i>	Sep 2020 - Dec 2021
<ul style="list-style-type: none"> · Amount: \$413,430 · Funder: USDOT Region 4 STRIDE UTC center · 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 (~18%)

Mobilizing Accessibility in Detroit and Ypsilanti

Jan 2018 - Jan 2019

- Amount: \$50,000
- Funder: Poverty Solutions University of Michigan
- PI: P. Van Hentenryck (transferred to T. Dillahunty in Aug 2018)
- My role and share of funding: Co-PI (~50%)

REFEREED CONFERENCE PRESENTATIONS

- [17] Zheng, A., **Yan, X.** (2023). The location problem of EV charging stations: research trends, critical gaps, and a future agenda. *The Transportation Research Board 101st Annual Meeting.*
- [16] 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 102nd Annual Meeting.*
- [15] 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 102nd Annual Meeting.*
- [14] Yang, W., Jafarzadehfadaki, M., **Yan, X.**, Zhao, X., Jin, X., Frolich, D., Sisiopiku, V. (2023). Shared E-scooters: User Characteristics and Usage Patterns across Four U.S. Cities. *The Transportation Research Board 102nd Annual Meeting.*
- [13] 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 101st Annual Meeting.*
- [12] 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 101st Annual Meeting.*
- [11] **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 101st Annual Meeting.*
- [10] **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 101st Annual Meeting.*
- [9] **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 101st Annual Meeting.*
- [8] 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 101st Annual Meeting.*
- [7] 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 101st Annual Meeting.*

- [6] 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 100th Annual Meeting*.
- [5] 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 100th Annual Meeting*.
- [4] 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 100th Annual Meeting*.
- [3] 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 100th Annual Meeting*.
- [2] Zhao, X., Zhou, Z., **Yan, X.**, & Van Hentenryck, P. (2020). Distilling black-box travel mode choice model for behavioral interpretation. *The Transportation Research Board 99th Annual Meeting*.
- [1] 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 99th Annual Meeting*.

OTHER CONFERENCE PRESENTATIONS

“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.

“Agglomeration economies, accessibility, and labor productivity: Evidence from US regions.” *LunchUP Seminar Series*, Taubman College of Architecture and Urban Planning, UM, Ann Arbor, March 17, 2017.

INVITED TALKS, ROUNDTABLES, AND WORKSHOPS

Invited Talks (Job Talks included)

“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

"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 for *Applied Data Science in Civil & Environmental Engineering*, UF 2021-
· Teach students the intricacies of data science techniques and their applications to real-world problems
· Teaching Evaluations: 4.68/5 (Fall 2021), 4.75/5 (Fall 2022)

Graduate Student Instructor for *Introduction to Statistics for Urban Planning*, UMich Fall 2014
· Worked with Prof. Margi Dewar
· Teaching Evaluations: 4.73/5

Teacher for *AP Statistics, GRE/GMAT Analytical Writing*, New Oriental School, China 2012 - 2013

STUDENTS MENTORED AND SUPERVISED

Doctoral Student Advisees

· Anran Zheng (Ph.D. student in Civil Engineering)

Master's Student Advisees

· Scott Fosser (Civil Engineering)

Master's Thesis Committee Chair/co-chair

· Christopher Wolf (Urban and Regional Planning)

Independent/Directed Study Students

Shoujing Ke (Undergrad in Computer Science, Fall 22'), Harrison Stark (Undergrad in Computer Science, Spring 23')

Student Research Assistants (RAs)

Current RAs:

- Eliana Duarte (Undergrad in Civil Engineering)
- Tejaswi Polimetla (Undergrad in Economics/Geography)
- Shoujing Ke (Undergrad in Computer Science)
- Yuxuan Zhang (Master's student in Computer Science)

Former RAs:

- 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 Rummeler (Undergrad in Sustainability Studies)

FACULTY SERVICE

Faculty Search Committee

- Computer & Information Science & Engineering, UF 2022-

Steering Committees

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

SERVICE TO THE PROFESSION

Transportation Research Board (TRB) Committee Services

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

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
- *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

- *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
- *2021 Research-to-Practice Transit Symposium*, Caltrans/UFTI/APTA/T-Score UTC 2022
- *2022 Research-to-Practice Transit Symposium*, Caltrans/UFTI/APTA/T-Score UTC 2021

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

Area Editor, CICTP 2023, *Chinese Overseas Transportation Association (COTA)* 2022

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

Journal/Conference 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, Journal of Land Use and Transport, 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

MEDIA

Mentions in the Press / Media Coverage of Research

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

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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