

Zehui Yin

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🆔 0000-0001-6954-7918 🎓 [IC7pmh0AAAAJ&hl](https://orcid.org/0000-0001-6954-7918) 🌐 [zehuiyin.github.io](https://github.com/zehuiyin) | Updated: 2025-Dec

Education

McMaster University, PhD in Geography 9/2024 - Present
School of Earth, Environment & Society Hamilton, Ontario, Canada
Supervisor: [Dr. Darren Scott](#)

University of Toronto Scarborough, HBA 9/2020 - 6/2024
Major in Economics for Management Studies Toronto, Ontario, Canada
Minor in Geographic Information Science & Applied Statistics
Certificate in Computational Social Science
Graduated with High Distinction
Cumulative GPA: 3.98 out of 4

Honours & Awards

Esri Canada Center of Excellence Student of the Year 2025

Ontario Graduate Scholarship 2025
C\$15,000 total merit-based scholarship to a graduate student for three consecutive terms jointly funded by the Government of Ontario and McMaster University

Kanaroglou Memorial Graduate Scholarship 2025
C\$1,500 scholarship awarded to a graduate student specializing in transportation research within the School of Earth, Environment & Society

Graduation Prize in Management and Economics 2024
C\$250 award for the top student graduating from the Department of Management and Economics

Governor General's Silver Medal 2024
Highest academic standing upon graduation from a bachelor's degree program
There are three silver medals awarded at the University of Toronto

University of Toronto Excellence Awards 2023, 2024
C\$7,500 scholarship for undergraduate students to conduct summer research projects

Department of Human Geography Outstanding Academic Performance Award 2024
Highest graduating cumulative GPA in the Minor in Geographic Information Systems

<i>Vincent Bladen In-course Scholarships</i>	2023
C\$300 scholarship for exceptional academic achievement	
<i>Sotherton Wadhams In-course Scholar</i>	2023
C\$1,500 scholarship for high academic standing	
<i>University of Toronto Scarborough Dean's List</i>	2021, 2022, 2023
Annual GPA equal to or greater than 3.5 in the previous academic year	
<i>University of Toronto Scholar</i>	2021
C\$1,500 scholarship for top 20 students in the previous academic year	

Professional Experiences

Research Assistant, <i>TransLAB, McMaster University</i>	9/2024 - Present
Project 1: Hamilton Shared Micromobility (Bike Share and Shared E-scooter) Data	
Project 2: "Future Mobility in Canada Survey"	
Project 3: "Transportation Tomorrow Survey"	
Supervised by: Dr. Darren Scott	
Research Assistant, <i>Suburban Mobilities Cluster, University of Toronto Scarborough</i>	11/2022 - 8/2024
Project 1: "Newcomers' Accessibility to Agencies in Scarborough"	
Project 2: "Metrolinx Service for OSAP Students at UTSC"	
Project 3: "Towards sustainable neighborhoods? Tensions and heterogeneous transport priorities among suburban residents"	
Project 4: "Evaluating the transit accessibility and equity of the Bus Rapid Transit (BRT) system: The case of Dar-es-Salaam, Tanzania"	
Project 5: "Toronto Cycling Survey"	
Project 6: "Neighbourhood Satisfaction in Scarborough: A Discrete Choice Analysis with Spatial Effects"	
Project 7: "Cycling evolution in Toronto (1999-2023)"	
Supervised by: Dr. Steven Farber , Dr. Andre Cire , and Dr. Ignacio Tiznado-Aitken	

Teaching Experiences

<i>ENVSOCY 4GS3 GIS Programming, McMaster University</i>	Fall 2025
Teaching Assistant for Dr. Darren Scott	
Graded assignments and responded to student inquiries via email	
<i>ENVSOCY 4GT3 Web GIS, McMaster University</i>	Fall 2025
Teaching Assistant for Patrick DeLuca	
Graded assignments	

Guest Lecture: Introduction to Quantitative Analysis in Research

Teaching Assistant for Dr. Antonio Paez

Conducted weekly lab sessions for two groups of approximately 24 students each

Graded assignments, midterm and final reflections

Teaching Assistant for Dr. Darren Scott

Conducted weekly lab sessions for two groups of approximately 25 students each

Invigilated examinations and graded assignments and tests

Teaching Assistant for Dr. Shaila Jamal

Conducted weekly lab sessions for around 30 students

Held weekly office hours to provide additional support

Invigilated examinations and graded assignments and tests

Publications & Reports

Yin, Z., & Scott, D. M. (2026). Pedal preferences: GPS-based panel data insights into bike share traffic flow across membership groups. *Cities*, 170, 106703. <https://doi.org/10.1016/j.cities.2025.106703>

Yin, Z., & Scott, D. M. (2026). Decoding the first-and-last mile: Analyzing the transit connecting bike share GPS routes in Hamilton, Ontario with spatiotemporal distance decay. *Travel Behaviour and Society*, 42, 101122. <https://doi.org/10.1016/j.tbs.2025.101122>

Yin, Z., Jamal, S., Tiznado-Aitken, I., & Farber, S. (2025). What makes people satisfied with their Neighbourhoods? Exploring individual characteristics beyond sociodemographics in Scarborough, Ontario. *Applied Geography*, 183, 103738. <https://doi.org/10.1016/j.apgeog.2025.103738>

Tiznado-Aitken, I., **Yin, Z.**, & Farber, S. (2025). Towards sustainable neighbourhoods? Tensions and heterogeneous transport priorities among suburban residents. *Transportation Research Part D: Transport and Environment*, 138, 104514. <https://doi.org/10.1016/j.trd.2024.104514>

Mwesigwa, L., **Yin, Z.**, & Farber, S. (2024). Evaluating the level of access and equity of the bus rapid transit (BRT) system: The case of Dar-Es-Salaam, Tanzania. *Journal of Transport Geography*, 119, 103953. <https://doi.org/10.1016/j.jtrangeo.2024.103953>

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*, 114, 103778. <https://doi.org/10.1016/j.jtrangeo.2023.103778>

- Huang, E., **Yin, Z.**, 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 Behaviour and Society*, 34, 100663. <https://doi.org/10.1016/j.tbs.2023.100663>
- 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. Natural Hazards Center, University of Colorado Boulder. <https://hazards.colorado.edu/quick-response-report/survey-of-evacuation-behavior-in-the-2021-marshall-fire-colorado>

Work in Progress

- Wheels Within Reach: Evaluating Bike Share Equity Impacts of a Pseudo-Free Student Pass Using Network-Distance-Based Kernel Density, *with Darren Scott*
- Tracking cycling behaviour and comfort perceptions in Toronto: Trends from 1999 to 2023, *with Ignacio Tiznado-Aitken, and Steven Farber*

Conference Presentations

(Note: Presenters are underlined.)

- Yin, Z., & Scott, D. M. (2025). Decoding the first-and-last mile: Analyzing the transit connecting bike share GPS routes in Hamilton, Ontario with spatiotemporal distance decay. *ITE Toronto-Hamilton-Southwest Ontario Sections – Mini Transportation Conference*, Oakville, Ontario.
- Yin, Z.**, Rybarczyk, G., Zheng, A., Su, L., Sun, B., & Yan, X. (2024). Shared micromobility as a last-mile transit solution? Spatiotemporal insights from a novel dataset. *Inagural U.S. Department of Transportation Future of Transportation Summit*, Washington D.C.
- 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. *Transportation Research Board 2024 Annual Meeting*, Washington D.C.
- Mwesigwa, L., **Yin, Z.**, & Farber, S. (2024). Evaluating the Transit Accessibility and Equity of the Bus Rapid Transit (BRT) System: The Case of Dar-Es-Salaam, Tanzania. *Transportation Research Board 2024 Annual Meeting*, Washington D.C.
- Tiznado-Aitken, I., **Yin, Z.**, & Farber, S. (2023). Towards sustainable neighborhoods? Heterogeneous transport priorities among suburban Scarborough residents. *NECTAR Cluster 6-7 Workshop – Sustainable neighborhoods: Urban and transport planning for sustainable urban living*, Coimbra, Portugal.
- 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. *Transportation Research Board 2023 Annual Meeting*, Washington D.C.

Invited Talks

“Pedal Preferences: GPS-Based Panel Data Insights into Bike Share Traffic Flow Across Membership Groups.” *Geographic Information Science (GIS) Day, McMaster University*, Hamilton, Ontario. November 19, 2025.

“Decoding the First-and-Last Mile: Analyzing the Transit Connecting Bike Share GPS Routes in Hamilton, Ontario with Spatiotemporal Distance Decay.” *School of Earth, Environment & Society Graduate Research Symposium, McMaster University*, Hamilton, Ontario. April 11, 2025.

“What Makes People Happy with Their Neighbourhoods? Exploring Individual Characteristics Beyond Sociodemographics in Scarborough, Ontario.” *Geographic Information Science (GIS) Day, McMaster University*, Hamilton, Ontario. November 21, 2024.

“What Makes People Happy with Their Neighbourhoods? Exploring Individual Characteristics Beyond Sociodemographics in Scarborough, Ontario.” *Suburban Mobilities Research Day, University of Toronto*. Toronto, Ontario. November 14, 2024.

“Toward Equitable Service Provision: A Catchment Area Analysis of The Bike Share Toronto System.” *Civic Hacknight #441, Civic Tech Toronto*. Toronto, Ontario. April 30, 2024. <https://civictech.ca/hacknights/441>

“Investment Priority on Transportation Infrastructures.” *Suburban Mobilities Cluster Day, University of Toronto*. Toronto, Ontario. June 9, 2023. <https://www.mobilitynetwork.utoronto.ca/suburban-mobilities-cluster-at-utsc-celebrates-its-first-research-day-with-a-focus-on-improving-transportation-at-scarborough>

Departmental Service

Student Associate, <i>Esri Canada GIS Centers of Excellence at McMaster</i>	2024 - Present
Member, <i>School of Earth, Environment & Society School Council</i>	2024 - 2025
Geography Representative, <i>School of Earth, Environment & Society Graduate Student Collective</i>	2024 - 2025

University Service

Member, <i>Social Science Student Research Ethics Committee (SocSciSREC), McMaster University</i>	2024 - Present
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Professional Service

Manuscript Reviewer (Note: Number of completed reviews indicated in parentheses.)

Humanities and Social Sciences Communications (1), *Scientific Reports* (1), *Transportation* (2), *Transportation Research Board Annual Meeting* (4), *Journal of Cycling and Micromobility Research* (1), *Journal of Urban Technology* (1)

Languages

English: Full Professional Proficiency

Mandarin Chinese: Native Language

Research Interests

Spatial Analysis, Econometrics, Machine Learning, Transportation Planning, Public Transit, and Micromobility

Programming Languages & Software

Proficient: R (Spatial/GIS: *sf*, *terra*, *sp*, *raster*, *r5r*; Modelling: *apollo*, *tidymodels*; Visualization: *ggplot2*, *plotly*, *shiny*), ArcGIS Pro, ArcGIS Online, Markdown (R Markdown, Quarto), Microsoft Office suite

Working Experience: Python (Spatial/GIS: *GeoPandas*, *rioxarray*, *Rasterio*, *Xarray*, *ArcPy*; Modelling: *statsmodels*, *scikit-learn*, *PyTorch*; Visualization: *Matplotlib*, *seaborn*), SQL, QGIS, L^AT_EX, Overleaf, HTML, CSS, JavaScript, Leaflet, Turf.js, MapLibre GL JS, Mapbox GL JS, Git, GitHub

References

Available upon request