

# Zehui Yin

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## 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

*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\$7500 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

*Vincent Bladen In-course Scholarships* 2023  
C\$300 scholarship for exceptional academic achievement

*Sotherton Wadhams In-course Scholar* 2023  
C\$1500 scholarship for high academic standing

*University of Toronto Scarborough Dean's List* 2021, 2022, 2023  
Annual GPA equal to or greater than 3.5 in the previous academic year

*University of Toronto Scholar* 2021

C\$1500 scholarship for top 20 students in the previous academic year

## Professional Experiences

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Research Assistant, *TransLAB, McMaster University* 9/2024 - Present

Project 1: Map Matching Hamilton Bike Share GPS Data

Project 2: “Future Mobility in Canada Survey”

Supervised by: [Dr. Darren Scott](#)

Research Assistant, *[Suburban Mobilities Cluster](#), University of Toronto Scarborough* 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](#)

Research Assistant (Volunteer) 5/2022 - 8/2022

Project 1: “Shared e-scooters as a last-mile transit solution? Travel behavior insights from Los Angeles and Washington D.C.”

Project 2: “Survey of Evacuation Behavior in the 2021 Marshall Fire, Colorado”

Project 3: “Digital Twin with Real-time Transit Data: UF Campus with RTS”

Project 4: Developing Spatial Interpolation Functions for Sociodemographic and Built-environment Variables in R

Project 5: “The E-scooter as a Feeder-mode to Transit: Re-evaluating a Common Assessment Protocol”

Supervised by: [Dr. Xiang ‘Jacob’ Yan](#)

## Teaching Experiences

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*[ENVSOCY 2GI3](#) Geographic Information Systems, McMaster University* Fall 2024

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

*[GGRA30H3](#) Geographic Information Systems (GIS) and Empirical Reasoning, University of Toronto Scarborough* Summer 2023

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

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- 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. Boulder, CO: Natural Hazards Center, University of Colorado Boulder. Available at: <https://hazards.colorado.edu/quick-response-report/survey-of-evacuation-behavior-in-the-2021-marshall-fire-colorado>

## Work in Progress

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- What Makes People Happy with Their Neighbourhoods? Exploring Individual Characteristics Beyond Sociodemographics in Scarborough, Ontario, *with Shaila Jamal, and Steven Farber*
- Towards sustainable neighborhoods? Tensions and heterogeneous transport priorities among suburban residents, *with Ignacio Tiznado-Aitken, and Steven Farber*

## Conference Presentations

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(Note: Presenters are underlined.)

- 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. The Inagural U.S. Department of Transportation Future of Transportation Summit, Washington DC.
- 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.
- 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. The Transportation Research Board 2024 Annual Meeting.

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.. The Transportation Research Board 2023 Annual Meeting.

## Invited Talks

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“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://www.youtube.com/watch?v=YDkwUKb83GM>

“Investment Priority on Transportation Infrastructures.” *Suburban Mobilities Cluster Day, University of Toronto Scarborough*. 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

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Member, <i>School of Earth, Environment &amp; Society School Council</i>	2024 - Present
Geography Representative, <i>School of Earth, Environment &amp; Society Graduate Student Collective</i>	2024 - Present

## University Service

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

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Manuscript Reviewer, *Journal of Urban Technology* (1)

## Languages

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English: Full Professional Proficiency

Mandarin Chinese: Native Language

## Research Interests

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Spatial Analysis, Econometrics, Transportation Equity, Public Transit & Micromobility, and Cartography & Data Visualization

## Programming Languages & Software

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

Working experience: Python (Spatial/GIS: *GeoPandas*, *rioxarray*, *Rasterio*, *Xarray*; Data Science: *NumPy*, *pandas*; Visualization: *Matplotlib*), SQL, QGIS, L<sup>A</sup>T<sub>E</sub>X, Overleaf, HTML, CSS, JavaScript, Leaflet, Turf.js, MapLibre GL JS, Mapbox GL JS, Git, GitHub

## References

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Available upon request