Zehui Yin

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🆔 0000-0001-6954-7918 🎓 IC7pmh0AAAAJ&hl 🌐 zehuiyin.github.io | *Updated:* 2024-Apr

Education

McMaster University, PhD in Geography   9/2024 (Incoming) -

  School of Earth, Environment & Society
  Supervisor: Dr. Darren Scott

University of Toronto Scarborough, HBA   9/2020 - 6/2024 (Expected)

  Major in Economics for Management Studies
  Minor in Geographic Information Science & Applied Statistics
  Certificate in Computational Social Science
  Cumulative GPA: 3.98 out of 4

Honours & Awards

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 Excellence Awards   2023

  C$7500 scholarship for undergraduate students to conduct summer research projects

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

Research & Teaching Experiences

Research Assistant   11/2022 - Present

  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"

Program: Suburban Mobilities Cluster

Supervised by: Dr. Steven Farber, Dr. Andre Cire, and Dr. Ignacio Tiznado-Aitken

Teaching Assistant   5/2023 - 8/2023

Course: *GGRA30* Geographic Information Systems (GIS) and Empirical Reasoning at *University of Toronto Scarborough*

Duties: Conduct tutorials, invigilate examinations, grading assignments and tests

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

Publications & Reports

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

What Makes People Happy with Their Neighbourhoods? Exploring Individual Covariates Beyond Socio-demographics 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*

Evaluating the Transit Accessibility and Equity of the Bus Rapid Transit (BRT) System: The Case of Dar-Es-Salaam, Tanzania, *with Leonard Mwesigwa, and Steven Farber*

Conference Presentations

(Note: Presenters are underlined.)

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

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

Certificates

Bayesian Statistics, Coursera	7/2021
Linear Regression and Modeling, Coursera	6/2021
Inferential Statistics, Coursera	6/2021
Welcome to Game Theory (with Honours), Coursera	5/2021
Introduction to Probability and Data with R, Coursera	5/2021

Languages

English: Full Professional Proficiency

Mandarin Chinese: Native Language

Research Interests

Spatial Analysis

Econometrics

Transportation Equity

Public Transit & Micromobility

Cartography & Data Visualization

Computational Methods & Data Science Training

MGED11: Theory and Practice of Regression Analysis

MGEC11: Introduction to Regression

STAC53: Applied Data Collection

MGEB12: Quantitative Methods in Economics II

GGRC42: Making Sense of Data: Applied Multivariate Analysis

MATA32/33: Calculus for Management I/II

CSCA20: Introduction to Programming (Python)

University of Toronto Scarborough

Programming Languages & Software

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

Working experience: Python, SQL, QGIS, LaTeX, Overleaf, VBA, HTML, CSS, JavaScript, Leaflet, Turf.js, MapLibre GL JS, Git, GitHub

References

Available upon request