Zehui Yin

Undergraduate Student and Research Assistant at University of Toronto Scarborough

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ⓘD 0000-0001-6954-7918 🎓 IC7pmh0AAAAJ&hl 🌐 zehuiyin.github.io | *Updated:* 2023-Sep

Education

University of Toronto Scarborough, HBA   9/2020 - Present

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

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

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"
Project 2: "Metrolinx Service for OSAP Students"
Project 3: "Investment Priority on Transportation Infrastructures"
Project 4: "Dar-es-Salaam BRT System Analysis"
Project 5: "Toronto Cycling Survey"
Project 6: "Neighbourhood Satisfaction in Scarborough"
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: "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

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

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 & Temporal Data Analysis

Econometrics

Cartography & Data Visualization

Programming & Automation

Transit & Transportation Equality

Computational Methods & Data Science Training

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*), ArcGIS, Markdown, Microsoft Office suite
Working experience:	Python, SQL, QGIS, LaTeX, VBA, HTML, CSS, JavaScript, Leaflet, Turf.js, MapLibre GL JS, GitHub

References

Available upon request