# Zehui Yin

Undergraduate Student and Research Assistant at University of Toronto Scarborough

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## Education

*University of Toronto Scarborough*, HBA                                                 9/2020 - Present

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

## Honours & Awards

*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"
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

## 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