

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

Teaching Assistant 5/2023 - Present

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 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](#)

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

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

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| 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, L^AT_EX, VBA, HTML, CSS, JavaScript, Leaflet, Turf.js, MapLibre GL JS, GitHub

References

Available upon request