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

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*), ArcGIS, Markdown, Microsoft Office suite

Working experience: Python, SQL, QGIS, LaTeX, VBA, HTML, CSS, JavaScript, Leaflet, MATLAB, GitHub

References

Available upon request