

Zehui Yin

Undergraduate Student and Research Assistant at University of Toronto Scarborough

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Education

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

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

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*

Towards sustainable neighborhoods? Tensions and heterogeneous transport priorities among suburban residents, with *Ignacio Tiznado-Aitken*, and *Steven Farber*

What Makes People Happy with Their Neighbourhoods? Exploring Individual Covariates Beyond Socio-demographics in Scarborough, Ontario, with *Shaila Jamal*, and *Steven Farber*

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

References

Dr. Steven Farber

Associate Professor

Department of Human Geography at the University of Toronto Scarborough

Email: steven.farber@utoronto.ca

I currently work as a research assistant under Steven's supervision in the [Suburban Mobilities Cluster](#).

Dr. Xiang 'Jacob' Yan

Assistant Professor

Department of Civil and Coastal Engineering at the University of Florida

Email: xiangyan@ufl.edu

I volunteered as a research assistant under Jacob's supervision in the Just&Green Transportation Lab for about 4 months.

Dr. Andre Cire

Associate Professor

Associate Chair – External Relations and Strategic Initiatives

Department of Management at the University of Toronto Scarborough

Rotman School of Management

Email: andre.cire@rotman.utoronto.ca

I worked as a research assistant in the Newcomers' Accessibility to Agencies in Scarborough project under Andre's supervision.