Yu Zhang | CV

Postdoctoral Fellow, Ph.D. of Civil Engineering Department of Civil & Mineral Engineering University of Toronto 10 King's College Rd, SF 3104-A Toronto, ON M5S 3G4 yyu.zhang@mail.utoronto.ca

EDUCATION

2024	Ph.D., Department of Civil & Mineral Engineering, University of Toronto, Toronto,
	ON, Canada
2019	M.Sci., School of Urban Planning and Design, Peking University, Beijing, China
2016	B.P.A., School of Public Administration, Zhejiang University, Hangzhou, China

EMPLOYMENT HISTORY

2024-present	Post-doctoral Research Fellow; Department of Civil & Mineral Engineering, University of Toronto
	Consultant Project for Infrastructure Canada (INFC) on Transportation Data Harmonization & Evaluation of Avoided GHG Emissions of Transit Investment
2019-2024	Doctoral Research Assistant; Advisor: Eric J. Miller; Department of Civil & Mineral Engineering, University of Toronto
	Agent-based simulation and modelling of the land use submodule of the Integrated Land use, Transportation, Environment (ILUTE) urban systems
2018	Visiting Scholar; Advisor: Xiaoguang Wang; Department of Geography, Central Michigan University
	Accessibility analysis and residential location choice modelling, daily travel behaviour analysis based on cellular signal dataset
2016-2019	Graduate Research Assistant; Advisor: De Tong; Ian MacLachlan; School of Urban Planning and Design, Peking University
	Strategic planning for Shenzhen-Shanwei Special Cooperative Zone (SSCZ), and research on the social capital generated in urban villages, migrant housing and residential segregation
2016	GIS Data Analyst Intern; Accenture (China) Co., Ltd.
	City electricity network development and maintain for the G20 Summit 2016
2015	Housing Planning and Land Investment Intern; Vanke (China) Co., Ltd.
	Integrated community development for the Liangzhu housing project in Hangzhou

AWARDS & FELLOWSHIP

2019-2024	University of Toronto Fellowship, Department of Civil Engineering
2019-2020	Richard Soberman Graduate Student Fellowship, University of Toronto
2018-2019	Graduate Dissertation Grant, Peking University - Lincoln Institute
2016-2018	School Principal Scholarship, Peking University

TEACHING DEVELOPMENT

Department of East Asian Studies, University of Toronto

EAS 273 Modern Chinese Cities, Course Instructor

Department of Civil & Mineral Engineering, University of Toronto

CIV 1535 Transportation and Development, Guest Lecturer

CIV 331 Transportation Planning I, Teaching Assistant

TEP1204 Teaching Higher Education in Engineering, Prospective Professor in Training CIV1535 Transportation and Development, Teaching Assistant

Communication University of China

Summer School of Artificial Intelligence and Social Network Analysis, Teaching Assistant

PUBLICATIONS

Manuscripts under review

- [9] **Zhang, Y.*** Conceptual Framework Design for the Agent-based Modelling in Micro-level Housing Finance Dynamics. *Journal of Urban Planning and Development*.
- [8] **Zhang, Y.***, Miller, E. J. Location Choice of Residential Housing Supply: an application of the Multiple Discrete-Continuous Extreme Value (MDCEV) Model. *Journal of Choice Modelling*.
- [7] **Zhang, Y.***, Miller, E. J. Modelling Housing Supply: Autoregressive Distributed Lag Model Approach for Evaluating Construction. *International Journal of Housing Market and Analysis*

Peer-Reviewed Journal Articles

- [6] **Zhang, Y.***, Miller, E. J. (2024). Analyzing Housing Supply Location Choice: A Comparative Study of the Modelling Frameworks. *Scientific Reports*. DOI: 10.1038/s41598-024-51754-9
- [5] **Zhang, Y.*** (2023). De-peripheralization and rural land capitalization: An empirical study of a public–private partnership in Zhaoqing, China. Regional Science Policy & Practice. DOI: 10.1111/rsp3.12713
- [4] **Zhang, Y.***, Miller, E. J. (2022). Predicting housing construction period based on a cox proportional hazard model—an empirical study of housing completions in the greater Toronto and Hamilton area. *Environment and Planning B: Urban Analytics and City Science*. DOI: 10.1177/23998083221143386.
- [3] **Zhang, Y.***, Rahman, A., & Miller, E. (2022). Longitudinal modelling of housing prices with machine learning and temporal regression. *International Journal of Housing Markets and Analysis*. DOI: 10.1108/IJHMA-02-2022-0033
- [2] **Zhang, Y.***, Zhang, D., Miller, E. J. (2020). Spatial Autoregressive Analysis and Modeling of Housing Prices in the City of Toronto. *Journal of Urban Planning and Development*. DOI: 10.1061/(ASCE)UP.1943-5444.0000651.
- [1] Tong, D., **Zhang, Y.**, MacLachlan, I.*, Li, G. (2020). Migrant housing choices from a social capital perspective: The case of Shenzhen, China. *Habitat International*, 96, 102082. DOI: 10.1016/j.habitatint.2019.102082

PRESENTATIONS

2024 An Investigation of the Housing Market and the Supply Modelling Process. PhD thesis presented at the 5th World Symposium of Transport and Land Use (WSTLUR) Conference, PhD thesis award workshop. Bogotá, Colombia.

2024	Location Choice of Residential Housing Supply: an application of the Multiple Discrete- Continuous Extreme Value (MDCEV) Model. Paper presented at the 5 th
	World Symposium of Transport and Land Use (WSTLUR) Conference.
	Bogotá, Colombia.
2021	Longitudinal Modelling of Property Transaction Price with Machine Learning Algorithms.
	Paper presented at the 4th World Symposium of Transport and Land Use
	Research (WSTLUR) Conference. Portland, OR, US
2021	Predicting Housing Construction Duration with Cox Proportional Hazard Model. Paper
	presented at The North American Regional Science Council (NARSC)
	2021 Annual Conference. Denver, CO, US
2019	Migrant housing choices from a social capital perspective: The case of Shenzhen, China. Paper
	presented at the Annual Conference of American Association of
	Geographers (AAG). Washing D.C., US
2018	Migrant Housing Needs and Urban Villages. Guest lecture at Hong Kong Baptist
	University, Department of Geography Public Seminar Series. Hong
	Kong, China

SERVICE & MEMBERSHIP

Journal Peer Reviewer

Regional Science: Policy & Practice Journal of Housing and Built Environment Cities Applied Geography

Organization of Conferences, Workshops, Panels, Symposia

2024 Co-organizer, Emerging Mobility Scholars Conference and Summer School, University of Toronto, Toronto ON

Organizational Membership

Student Member, Canadian Institute of Planners (CIP), 2020 – present
Mentor, Society for Canadian Women in Science and Technology (SCWIST), 2021 – present
Student Ambassador, Ontario Network of Women in Engineering (ONWiE), 2021 – present
Student Member, Canadian Society for Civil Engineering (CSCE), 2022 - present
Student Member, Association of Collegiate Schools of Planning (ACSP), 2018 - present
Student Member, American Association of Geographers (AAG), 2018 - present

REFERENCE

Eric J. Miller, Ph.D.

Professor

Department of Civil and Mineral Engineering
University of Toronto

Professor

School of Urban Planning and Design
Peking University

Peking University

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