XINYUAN ZHANG

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EDUCATION

Sauder School of Business, University of British Columbia *2025 (Expected)*
Ph.D. in Management Science
Advisor: Micheal Jong Kim

University of Toronto *2017*
M.A.Sc. in Operations Research, Industrial Engineering

McGill University *2014*
B.S.Hons in Mathematics and Physics

Languages: English, Chinese (Mandarin), French

RESEARCH INTERESTS

Methodologies:
dynamic programming, stochastic control, statistical learning, Bayesian statistics, data-driven optimization, decentralized control

Applications:
data-driven decisions in complex information-sharing environments (misinformation, strategic behavior, bias and fairness), with applications in healthcare analytics, revenue management, and social learning

RESEARCH

Journal Publications:

Keppo, J., Kim, M. J., Zhang, X. (2022). **Learning manipulation through information dissemination**. *Operations Research*, 70(6), 3490-3510.

❖ Runner-up for INFORMS DAS Best Student Paper Award, 2022

Working Papers:

Dynamic service allocation with returns: application to admission and discharge control with readmission in hospital
with Hossein Abouee-Mehrizi, Ya-tang Chuang and Micheal Jong Kim
revise and resubmit to *Operations Research*

Diversified learning: Bayesian control with multiple biased information sources
with Jussi Keppo and Micheal Jong Kim
manuscript in preparation

Shortening booking horizon for multi-appointment scheduling: An experimental study for speech-language therapy
with Hossein Abouee-Mehrizi
manuscript in preparation

Work in Progress:

Optimal feature selection for multi-variate Bayesian control charts
with Ilbin Lee and Michael Jong Kim

Robust data-driven scheduling with multiple follow-up appointments
with Hossein Abouee-Mehrizi

PRESENTATIONS

Diversified learning: Bayesian control with multiple biased information sources

- POMS, April 2024; CORS, June 2024; MSOM, June 2023;

Learning Manipulation through Information Dissemination

- INFORMS Annual Meeting, October 2021, 2019; INFORMS Revenue Management and Pricing Conference, June 2019;

Dynamic service allocation with returns: application to admission and discharge control with readmission in hospital

- CORS Annual Conference, June 2023, 2021;

Multi-armed Bandit with Sensor Selection.

- MIE Graduate Symposium, June 2016; C-MORE Annual Consortium, May 2016;

Condition Based Maintenance with Multi-data Types.

- MIE Graduate Symposium, June 2015; C-MORE Annual Consortium, May 2015;

TEACHING

Instructor

Undergraduate Operations & Logistics (COMM 204), UBC — Summer 2021

- Teaching evaluation of 4.6/5 (class size: 58)
- Introductory course in operations management for students in the Bcom program; covers process analysis, queuing systems, project management, inventory management and supply chain management;

Guest Lecturer

Undergraduate Operations & Logistics (COMM 204), UBC — Fall 2020, 2022
Graduate Stochastic Processes (MIE 1605H), University of Toronto — Winter 2016, 2017

Teaching Assistant

Graduate Descriptive and Predictive Analytics (BABS 507), UBC — Fall 2023, Spring 2024

Undergraduate Decision Analysis Under Uncertainty (BAMS 517), UBC	Fall 2020
Graduate Analyzing and Modelling Uncertainty (BABS 506), UBC	Fall 2019, Fall 2020
Graduate Application of Statistics in Management (BABS 550), UBC	Winter 2019
Graduate Operations (BASC 550), UBC	Winter 2018, Fall 2020, 2023
Graduate Stochastic Processes (MIE 1605H), University of Toronto,	Winter 2015, Winter 2016
Undergraduate Differential Equations (MAT234H) University of Toronto	Fall 2015

SERVICE

Reviewer for *Operations Research*, *Management Science*, *IEEE Transactions on Automatic Control*, *Healthcare Management Science*

Session chair for CORS 2021 and INFORMS Annual Meeting 2021; Co-organizer for C-more consortium meetings 2015-2017

Co-president of the Ph.D. Student Society at UBC Sauder School of Business

HONOURS AND AWARDS

Shelby L Brumelle Memorial Graduate Scholarship 2018, 2023

Runner-up for INFORMS DAS Student Paper Award, 2022

President's Academic Excellence Initiative PhD Award 2020, 2021, 2022

Dean Earle D MacPhee Memorial Fellowship 2017, 2018, 2019, 2020,2021,2022

Sauder School of Business Graduate Award 2017

Edward and Miriam Silber Memorial Graduate Scholarship 2017

OGS Ontario Graduate Scholarship 2015

MIE Fellowship 2015-2017

NSERC Undergraduate Student Research Award 2013

First Class Honours in Mathematics and Physics 2011-2014

REFERENCES

Michael Jong Kim
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