

# XINYUAN ZHANG

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## EDUCATION

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**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

## RESEARCH INTERESTS

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### **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

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### **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

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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

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### Instructor

Undergraduate Operations & Logistics (COMM 204), UBC

Summer 2021

- Teaching evaluation of 4.6/5 (class size: 58)
- Introductory course for commerce 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

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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

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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

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Michael Jong Kim  
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The University of British Columbia  
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