

XINYUAN ZHANG

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EDUCATION

Sauder School of Business, University of British Columbia
Ph.D. in Management Science, Business Administration

August 2017 - Present

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

September 2014 - August 2016

McGill University
B.S.Hons in Mathematics and Physics

September 2011 - May 2014

RESEARCH

Research interests: Dynamic programming, statistical decision, Bayesian learning, robust optimization, decentralized control, healthcare analytics, financial forecasting, and social learning.

Publications

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

Working Papers

Dynamic service allocation with returns: application to admission and discharge control with readmission in hospital. Joint work with Hossein Abouee-Mehrizi, Ya-tang Chuang and Micheal Jong Kim.
To be resubmitted to Management Science.

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

Work in Progress

Diversified learning: Bayesian control with multiple biased information sources
Joint work with Jussi Keppo and Micheal Jong Kim.

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

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

PRESENTATIONS

Diversified learning: Bayesian control with multiple biased information sources.

- MSOM Conference, Montreal

June 2023

Learning Manipulation through Information Dissemination.

- INFORMS Annual Meeting, Online October 2021
- INFORMS Annual Meeting, Seattle October 2019
- INFORMS Revenue Management and Pricing Conference, Stanford University June 2019

Dynamic Discharge Control in Capacity-Constrained Systems.

- CORS Annual Conference, Vancouver, June 2022
- CORS Annual Conference, Online. June 2021

The Multi-armed Bandit Problem with Sensor Selection.

- MIE Graduate Symposium, University of Toronto. June 2016

Condition Based Maintenance with Multi-data Types. May 2015.

- C-MORE Annual Consortium, University of Toronto. May 2015

TEACHING

Instructor

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

- Teaching evaluation of 4.5/5 (class size: 58)

Guest Lecturer

Undergraduate Operations & Logistics (COMM 204), UBC Fall 2020

Graduate Stochastic Processes (MIE 1605H), University of Toronto Winter 2016

Teaching Assistant

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

Graduate Stochastic Processes (MIE 1605H), University of Toronto, Winter 2015, Winter 2016

Undergraduate Differential Equations (MAT234H) University of Toronto, Fall 2015

HONOURS AND AWARDS

Runner-up for INFORMS DAS Student Paper Award, 2022

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

Shelby L Brumelle Memorial Graduate Scholarship 2018

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

