

Ian Zhang

Curriculum Vitae

Contact Information

Email: ianz.zhang@mail.utoronto.ca

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Education

MSc in Statistics, University of Toronto 2026

Honours BSc in Statistics/Mathematics, University of Toronto 2025

- Advisor: Jun Young Park
- Graduated with high distinction
- Relevant coursework: Machine learning, stochastic processes, statistical inference, methods of multivariate data, data analysis, real analysis, linear algebra, ordinary and partial differential equations, introduction to computer science and programming

Experience

Summer Research Trainee, McGill University 2025

Supervisor: Jianguo (Jeff) Xia

Research Assistant, University of Alberta 2023-2024

Supervisor: Mike Kouritzin

Publications and Preprints

†: Corresponding Author; *: Equal contribution

Preprints

1. Mike A. Kouritzin, **Ian Zhang**[†], Jyoti Bhadana, Seoyeon Park 2024
Markov Processes for Enhanced Deepfake Generation and Detection
<https://arxiv.org/abs/2411.07993>

Presentations

Talks

2025 SSC Annual Meeting in Saskatoon 2025

Presented *Markov Processes for Enhanced Deepfake Generation and Detection* in the Probability session.

Third Joint SIAM/CAIMS Annual Meetings (scheduled) 2025

Will be presenting *Markov Processes for Enhanced Deepfake Generation and Detection* in the Machine Learning and Stochastic Processes session.

Posters

The Thirteenth Annual Canadian Statistics Student Conference 2025

Presented a poster *Comparing Exact and Approximate Inference for Spatial Autocorrelation Tests: A Power Analysis*.

Honours and Awards

Anna & Alex Beverly Memorial Fellowship 2025

Awarded by University College (University of Toronto) for general proficiency during my undergraduate degree.

NSERC Undergraduate Student Research Award (x2) 2023, 2024

Awarded by the University of Alberta to research Markov process methods for deepfake generation and detection.

Jack Zwaigenbaum Scholarship 2022

Awarded by University College (University of Toronto) for academic excellence in my first year of undergraduate studies.

Dean's List Scholar (x4) 2022, 2023, 2024, 2025

Awarded by the Faculty of Arts and Science (University of Toronto) for maintaining academic excellence every year of my undergraduate degree.

Grants

CSSC Travel Grant 2025

Awarded to full-time Canadian students presenting a poster or giving a talk at the Canadian Statistics Student Conference

Services

Conferences

Session co-chair, 2025 Third Joint SIAM/CAIMS Annual Meetings (scheduled)

Invited to co-chair the "Machine Learning and Stochastic Processes" session

Other

Languages Spoken: English (native), Mandarin (native), Japanese (intermediate)

Memberships: Statistical Society of Canada