Ian Zhang
Curriculum Vitae

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Education

University of Toronto   *Sept 2021 – June 2025*
Honours BSc in Statistics

- **Coursework:** Data Analysis, Probability, Machine learning, Mathematical Statistics, Time Series Analysis, Stochastic Processes, Calculus, Linear Algebra

Experience

Research Assistant   *Edmonton, AB*
University of Alberta   *May 2023 – Aug 2024*

- Awarded 2 scholarships from Natural Sciences and Engineering Research Council of Canada
- Researched deep fake simulation/detection methods
- Helped design and implement a model involving Hidden Markov Models with a GAN-like structure

Publications

In progress

Markov Processes for Enhanced Deepfake Generation and Detection   *2024*
Bhadana, J., Kouritzin, M. A., Park, S., ***Zhang, I.***
https://arxiv.org/abs/2411.07993

Projects

Pomodoro Clock with Deep-learning Implementations   *GitHub* ↗

- Developed a pomodoro clock that implements deep-learning, NLP, and generative AI to provide adaptive productive insights, integrated real-time tracking, and task categorization
- Designed to help individuals keep on track and minimize the amount of work required to plan tasks and budget time
- Tools Used: PyTorch, Scikit-Learn

Honours and Awards

NSERC Undergraduate Student Research Award   *2023, 2024*
Awarded to conduct research during the 2023 and 2024 Spring/Summer terms udner   NSERC, UofA
the supervision of Professor Mike A. Kouritzin at the University of Alberta

Jack Zwaigenbaum Scholarship   *2022*
Awarded for academic excellence in the 2021-2022 school year   University College, UofT

Dean's List Scholar (x3)   *2022, 2023, 2024*
Awarded for maintaining academic excellence throughout my undergrad   FAS, UofT

Technical Skills

Programming Languages: Python, R, SQL, Java, MATLAB, Julia

Tools and Frameworks: PyTorch, VS Code, JupyterHub, RStudio, GitHub

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