

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

Preprints

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, scapy, tensorflow, huggingface

Personal Website [link](#) 

- Created a personal portfolio website to showcase my projects and academic work
- Website highlights my web development skills, Git version control, and responsive design practices
- Tools used: HTML, CSS, GitHub Pages

Honours and Awards

NSERC Undergraduate Student Research Award 2023, 2024

Awarded to conduct research during the 2023 and 2024 Spring/Summer terms under the supervision of Professor Mike A. Kouritzin at the University of Alberta NSERC, UofA

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)