

# Ian Zhang

## Curriculum Vitae

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### Education

<b>University of Toronto</b> <i>MSc in Statistics</i>	<i>Sept 2025 - Apr 2026</i>
<b>University of Toronto</b> <i>Honours BSc in Statistics (with high distinction)</i> Advisor: Jun Young Park	<i>Sept 2021 - Apr 2025</i>

### Experience

<b>Research Assistant</b> <i>University of Alberta</i>	<i>Edmonton, AB</i> <i>May 2023 - Aug 2024</i>
<ul style="list-style-type: none"><li>◦ Awarded 2 scholarships from Natural Sciences and Engineering Research Council of Canada</li><li>◦ Researched deep fake simulation/detection methods in tandem with Scotiabank</li><li>◦ Helped design and implement a model involving Hidden Markov Models with a GAN-like structure</li></ul>	

### Publications

#### In progress

<b>Markov Processes for Enhanced Deepfake Generation and Detection</b>	<i>2024</i>
Bhadana, J., Kouritzin, M. A., Park, S., <b>Zhang, I.</b>	
<a href="https://arxiv.org/abs/2411.07993">https://arxiv.org/abs/2411.07993</a>	

### Presentations


#### Talks


2025 SSC Annual Meeting in Saskatoon	<i>2025</i>
3rd Joint SIAM/CAIMS Annual Meetings (scheduled)	<i>2025</i>

#### Posters

The Thirteenth Annual Canadian Statistics Student Conference	<i>2025</i>
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### Projects

<b>Pomodoro Clock with Deep-learning Implementations</b>	<a href="#">GitHub</a> 
<ul style="list-style-type: none"><li>◦ Developed a pomodoro clock that implements deep-learning, NLP, and generative AI to provide adaptive productive insights, integrated real-time tracking, and task categorization</li><li>◦ Designed to help individuals keep on track and minimize the amount of work required to plan tasks and budget time</li><li>◦ Tools Used: PyTorch, scikit-Learn, scapy, tensorflow, huggingface</li></ul>	

<b>Personal Website</b>	<a href="#">link</a> 
<ul style="list-style-type: none"><li>◦ Created a personal portfolio website to showcase my projects and academic work</li><li>◦ Website highlights my web development skills, Git version control, and responsive design practices</li><li>◦ Tools used: HTML, CSS, GitHub Pages</li></ul>	

## Honours and Awards

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### **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

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**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)