

YIFEI SUN

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EDUCATION

Bachelor of Science: Computer Science / Statistics, 06/2025

University of Toronto - Toronto, ON

- **GPA: 4.0/4.0; Avg 94/100**
- 5+ major awards/scholarships throughout 2020-2025
- Computer Science Peer Mentor; Research Associate for Educational Module Development

TECHNICAL SKILLS

- Languages: Python, C/C++, MATLAB, SQL, {Javascript, HTML, CSS}, Java, Git, Bash
- Frameworks: Pytorch, Tensorflow, HuggingFace, Pandas, AutoGPTQ, Scikit-Learn
- NLP: Low resources language understanding and generation; Knowledge representation and reasoning

EXPERIENCE

Undergraduate Research Student, 09/2024 - Current

Vector Institute - Toronto, Canada (supervised by *Rahul G.Krishan*)

- Evaluating and addressing distributional shifts on policy function for optimal lab test ordering
- Time series forecasting on sparse feature matrices of ICU/ED patients

Undergraduate Research Student, 05/2024 - 10/2024

Computational Social Science Lab – Toronto, Canada (supervised by *Ashton Anderson*)

- Innovatively designed ranking methods that overcome pain points of traditional LLM-based models can only estimate rankings.
- Innovatively created framework of joint textual and structural embeddings for logical query answering over knowledge graph
- Design and implement models exploiting LLM for knowledge graph completion that reaches SoTA.

Machine Learning Stack Engineer, 04/2023 - 05/2024

Cerebras Systems – Toronto, ON

- Implement and maintain pipelines facilitating gradient accumulation and optimize Layout.
- Collaborated with the stack team to create estimation models that optimized compiler performance.
- Developed infrastructure for parameter sweeping (lane count, batch size, etc.). The infrastructure was integrated into weekly testing and identified 70+ issues by the end of internship.
- Participated in formal internal design reviews of proposed components.

PROJECTS

Dissemination of rumor (2023)

- Adapted SIR model to fit rumor dissemination. Innovatively added parameters of "threshold of conviction" and "conformity" to base models that better illustrate the problem.
- Extensively analyze the model including equilibrium, sensitivity and power of dissemination
- Simulate using MATLAB, prove better correspondence when fitting to real world data