

# Andrew Liu

Updated December 16, 2024

**Email:** aliu@cs.toronto.edu

**Phone:** (647) 639 2991

## Education

### University of Toronto

Master of Science, Computer Science

GPA:  $\sim$ 100

Toronto, Ontario, Canada

September, 2024 – Present

### University of Waterloo

Bachelor in Computer Science

GPA: 92.10/100

Waterloo, Ontario, Canada

September, 2020 – June, 2024

## Publications

### What does the Knowledge Neuron Thesis have to do with Knowledge?

Jingcheng Niu, **Andrew Liu**, Zining Zhu, Gerald Penn.

*ICLR, 2024. (Spotlight)*

### The Impact of Incidental Multilingual Text on Cross-Lingual Transferring in Monolingual Retrieval

**Andrew Liu**, Edward Xu, Xinyu Zhang, Jimmy Lin.

*ECIR, 2025.*

## Research Experience

### Data Systems Group (University of Waterloo)

Supervisor: Professor Jimmy Lin

September 2023 – August 2024

- Investigation of relevance of shared token overlap on the cross-lingual capabilities of dense retrieval models

### Computational Linguistics Group (University of Toronto)

Supervisor: Professor Gerald Penn

May 2023 – August 2024

- Investigation of prevailing theses and methodologies related to LLM interpretability

### OpAL Lab (University of Waterloo)

Supervisor: Professor Kimon Fountoulakis

January 2023 – April 2023

- Designed and conducted experiments with novel benchmarking features for datasets relating to the problem of node classification on graphs

## Teaching experience

### Teaching Assistant

Fall 2024

CSC110Y1: Foundations of Computer Science

## Industry experience

### A.U.G. Signals Ltd.

Software Engineer Co-op

Toronto, Ontario

May 2022 – August 2022

- Extensively improved upon the frontend and backend of the AirSENCE air quality monitoring device

**A.U.G. Signals Ltd.**

Toronto, Ontario

Software Engineer Co-op

May 2021 – August 2021

- Designed and developed a tool to generate, parse, and organize device configuration files for the AirSENCE project

**Honors and  
Scholarships**

Dean's Honour List (University of Waterloo)

2020 - present

President's Research Award (University of Waterloo)

2023

Faculty of Mathematics Entrance Scholarship (University of Waterloo)

2020

President's Scholarship of Distinction (University of Waterloo)

2020