

Harley Zhang

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Education

University of Waterloo

Bachelor's of Applied Sciences, Computer Engineering, Co-op

2024 – 2029

Waterloo, Ontario

Professional Experience

Yale University

Software Engineering Intern

Supervisor: W. Lauenroth (william.lauenroth@yale.edu)

Mar 2021 – Present

New Haven, Connecticut

- Ran simulation models using Bash and analyzed output data using R to evaluate climate change in Colorado.
- Created and deployed EcoForecast, an online app using Google Earth Engine JavaScript API to display simulation climate change data in drylands in the US for ranchers and land managers.
- Developed a neural network to automatically classify wildlife images for species identification.

University of Toronto

Research Assistant

Supervisor: M. Cadotte (marc.cadotte@utoronto.ca)

May 2023 – Dec 2023

Toronto, Ontario

- Classified land uses (e.g. water, grass, forest) in historical aerial images of the city of Toronto.
- Trained a neural network using manually classified images to automatically sort land uses.
- Analyzed the impacts of urbanization in Toronto over the past century based on land use changes and landscape dynamics.

Kumon Learning Centre

Teaching Assistant

Jun 2023 – Sep 2023

Toronto, Ontario

- Taught students aged 3-18 math, reading, writing and provided feedback for educational support.
- Evaluated student performance by grading examinations and tracking improvement by maintaining assessment records.

Leadership Experience

Harvard Medical School

American Lung Cancer Screening Initiative

Apr 2021 – Present

Boston, Massachusetts

- Delivered lung cancer screening workshops for health and community organizations in Canada and the US.
- Engaged in outreach efforts to US Senators and Representatives to advocate for bills involving lung cancer education and screening guidelines.
- Worked with local and regional US government leaders to create and distribute public service announcements on local lung cancer screening programs.

Unionville Future Business Leaders of America (FBLA)

President and Founder

Oct 2020 – Present

Markham, Ontario

- Assembled and led a team of 10 executives and trainers to develop comprehensive training and marketing resources for the chapter.
- Delegated weekly training sessions held by trainers covering topics on business, economics, and finance for over 100 members.
- Oversaw member organization and assistance at the Canadian National Leadership Conference.

Skills

Languages

JavaScript, HTML/CSS, R, Bash, C/C++/C#, Python

Technologies

React.js, Tailwind CSS, Google Earth Engine JavaScript API, OpenAI API

Tools

Git, Word, Outlook, Excel, PowerPoint, Drive, VS Code, Dropbox