

# Emily Medema

emilymedema.com medema.emily@gmail.com (778) 212 -7440  
github.com/emedema linkedin.com/in/emily-medema

## Education

### **Queen's University, Kingston, ON**

*September 2022 - September 2024*

MSc in Computing

Ethics, Artificial Intelligence and Evolutionary Computing

### **University of British Columbia, Kelowna, BC**

*September 2017 - April 2022*

BSc Honours in Computer Science, Minor in Data Science

GPA: 4.33/4.33

## Research

### **Evolving and Analyzing Misinformation**

*June 2023 - September 2024*

### **Automatic Feedback Evaluation**

*November 2022 - September 2024*

### **Tracking Injustice Data Collection and Scraping**

*April 2023 - September 2023*

### **Ethical Use of Machine Learning in Medicine**

*September 2022 - June 2023*

### **Analysis of Agriculture Sensor Data**

*September 2021 - April 2022*

### **Mixture Models and Applications**

*January 2021 - April 2021*

### **Internet of Things Patient User Experience Platforms**

*September 2019 - April 2020*

## Skills

**Language** – Fluent in English, Intermediate in French

**Programming Languages** – Java, Python, JavaScript (including React and Node), SQL, PHP, R, HTML/CSS, VBA, Swift, MIPS Assembly, C, C#, C++

**Computer Skills** – Artificial Intelligence, Machine Learning, Evolutionary Computing, Data Mining, Microsoft Office, Data Analytics, Database Design and Administration, Web Development, Mobile App Development, Software Development, Project Management, Analysis of Algorithms, and Human Computer Interaction.

## Volunteering

### **President**

*April 2021- May 2022*

Quantitative Sciences Course Union, Kelowna, BC

### **Vice President /VP Finance**

*April 2018-April 2020*

Quantitative Sciences Course Union, Kelowna, BC

## Awards

### **NSERC Scholarship Recipient**

2023 - 2024

### **Vector Scholarship in Artificial Intelligence Recipient**

2022-2023

### **Honourable Mention for Graduating Computer Science**

2022

### **Irving K. Barber Women in Technology Scholarship**

Scholarship

*September 2018-2019*

## Employment

### **Teaching Assistant**

*January 2023 - December 2023*

Queen's University, Kingston, ON

- Taught a seminar and marked assignments for CISC 497
- Coordinated a team of 7 Teaching Assistants for CISC 365
- Marked and gave feedback to students on assignments and tests, which involves knowledge on algorithmic analysis, designs, and proofs.

### **Teaching Assistant**

*September 2019 - April 2022*

University of British Columbia, Kelowna, BC

- Coordinated a team of 7 Teaching Assistants for COSC 121
- Provided additional instruction and support to students in the Computer Science faculty within laboratories for COSC 111 and DATA 301 as well as tutorials for COSC 221.
- Marked and gave feedback to students on assignments and tests, which involves knowledge on the language, syntax, and occasionally proofs.

### **Digital Systems Student**

*September 2020 – August 2021*

Teck Resources, Calgary, AB

- Developed UI/UX design for web and mobile applications.
- Scripted and implemented database schema alignment across 6 sites.
- Automated security and testing scripts with Selenium and SonarQube.
- Performed Drilling and Blasting Systems (DABS) support, quality assurance, bug-fixes.

### **Software Developer**

*May 2020 - August 2020*

Saturn Animation Studios, Kelowna, BC

- Developed a web application (Kukarella), an online Voice-to-Text, Text-to-Voice platform. Primarily in React.js, Node.js, Firebase, and AWS.
- Developed a new payment model, fixed 10 critical bugs, and performed testing.

### **Research Assistant**

*September 2019 - April 2020*

University of British Columbia, Kelowna, BC

- Developed a mobile application to integrate the Internet of Things and better data visualization, visioning and analytics algorithms into Patient Health Platforms to improve patient experience.

### **Service Desk Intern**

*May 2017 – August 2019*

Tolko Industries Ltd., Vernon, BC

- Offered solutions to operations issues for users of Tolko's enterprise system and various applications such as Microsoft Office, working closely via phone, email, live chat, and web teleconference with end users.