# Romina Mahinpei

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## EDUCATION

**University of British Columbia (UBC)**  Graduation Date: **05/2024**
B.S. Honours Computer Science with Minor in Mathematics  GPA: **94.9%**
- Recipient of the Trek Excellence Scholarship, offered annually to the top 5% of UBC students, in 2021-2023.

## RESEARCH EXPERIENCE

**Research Assistant | UBC Systopia Lab**  02/2022 – 01/2023
- Designed, implemented, and tested the ModelCard package for Tribuo, Oracle's open-source Java ML library, to encourage transparency within ML by allowing users to create partially automated model documentations.
- Designed and implemented a Python script to convert W3C provenance to SPADE provenance.
- Conducted a user study to understand the current state of data workflows and identify potential applications of data provenance for in those workflows.

**Research Assistant | UBC Quantum Matter Institute**  05/2021 – 08/2021
- Created van der Waals heterostructures for longitudinal resistance measurements and quantum devices.
- Studied my team's data pipeline, identified potential approaches to automation, and implemented Igor-Pro programs to automate the plotting and categorizing of measured data.
- Presented my findings at the Quantum Matter Institute Summer Undergraduate Talks.

**Research Assistant | UBC Undergraduate Research Opportunities**  10/2020 – 03/2021
- Studied the Thomas model of weight loss, implemented the model in Python, and ran simulations to investigate the effects of restricted caloric intakes on body weight.
- Presented my findings at the Multidisciplinary Undergraduate Research Conference (MURC 2021).

## TEACHING EXPERIENCE

**Computer Science Teaching Assistant | UBC**  09/2022 – 04/2023
- Assisted students in CPSC 210, UBC's software construction course focusing on the design, development, and analysis of robust software components.

**Math Teaching Assistant | UBC**  09/2021 – 04/2022
- Assisted students in the Science One program, an immersive program ranking as UBC's highest level of first-year science, with differential and integral calculus.

## WORK EXPERIENCE

**Software Engineering Intern | Microsoft Redmond Campus**  05/2023 – 08/2023
- Interning as a software engineer for one of Xbox's data engineering teams.

**Explore Intern | Microsoft Redmond Campus**  06/2022 – 08/2022
- Interned as a program manager and software engineer for one of Xbox's services and operations teams.
- Defined and documented the scope and goals of a new feature aimed at improving the user experience.
- Implemented and tested the data model, the backend infrastructure, and the API supporting the new feature.

## AWARDS

**Schulich Leader Scholarship**  04/2020
- Recipient of Canada's most coveted STEM scholarship covering four years of undergraduate studies.
- Awarded every year to a total of 100 Canadian students based on academic performance and leadership.

## UNDERGRADUATE PUBLICATIONS

Mahinpei, R. (2020a). Minimizing the use of Polyethene Inside Paper Coffee Cups. *STEM Fellowship Journal*, *6*(1), 60–68. https://doi.org/10.17975/sfj-2020-011.

Mahinpei, R. (2020b). A Comparative Analysis of the Gini index. *STEM Fellowship Journal*, *6*(1), 34–52. https://doi.org/10.17975/sfj-2020-010.