




# Riley Wheadon

 <https://github.com/rileywheadon>  <https://rwheadon.dev>  [rileywheadon@gmail.com](mailto:rileywheadon@gmail.com)

## EDUCATION

---

### University of British Columbia

B.Sc. Honours Mathematics

Jun. 2026

Average: 93.5%

### Westmount Charter School

High School Diploma

Jun. 2022

## COURSEWORK

**Courses:** Data Structures & Algorithms, Linear Algebra, Calculus I-IV, Complex Analysis, Ordinary & Partial Differential Equations, Object-Oriented Programming, Data Science.

**Awards:** Dean's List (2x), Royal Conservatory of Music Grade 10 Piano - First Class Honours (1x), Calgary Performing Arts Festival Gold (3x), Best Delegete - Canadian High School Model United Nations (2x).

## SKILLS

---

**Languages:** Python, L<sup>A</sup>T<sub>E</sub>X.

**Tools:** Git, Unix Shell, Jupyter, Neovim.

**Libraries:** sympy, scipy, pandas, numpy, matplotlib, BeautifulSoup4.

## PROJECTS

---

### Canadian Legislation Visualization | *Python, pandas, plotly, BeautifulSoup4*

Jan. 2023

- Analyzed trends in 28 years worth of legislative data from the Canadian Government.
- Built a web scraper to acquire additional information from the Government of Canada's website.
- Visualized the data using plotly and produced a brief report on the results.

## EMPLOYMENT

---

### University of British Columbia | *Student Researcher*

Apr. 2024 – Present

- Developed a biologically accurate mathematical model of root growth in *Arabidopsis Thaliana*.
- Presented results at the Canadian Undergraduate Mathematics Conference and various other seminars at UBC.
- Research was conducted as the recipient of an NSERC USRA under the supervision of Dr. Eric Cytrynbaum.

### University of British Columbia | *Teaching Assistant*

Sep. 2023 – Present

- Lectured to classes of over 50 undergraduate students with the support of a graduate student.
- Provided supplementary instruction during differential and integral calculus workshops.
- Helped students develop mathematical communication skills through group work and written assignments.

### Minds in Motion Calgary | *Programming Instructor*

Apr. 2023 – Aug. 2023

- Planned and delivered 40 hours of lessons per week on computer programming for campers aged 10-14.
- Worked closely with a team of over 30 instructors to foster a safe and inclusive learning environment.
- Ran workshops on science and technology for elementary school students across Calgary.

### Cambridge Manor | *Volunteer Pianist*

Jan. 2021 - Jan. 2023

- Learned and performed piano music for the residents of the Cambridge Manor nursing home in Calgary.
- Provided entertainment to residents throughout the COVID-19 pandemic and during the holiday season.