

# Riley Wheadon

📄 <https://github.com/rileywheadon> `</>` <https://rileywheadon.github.io/blog> ✉ [rileywheadon@gmail.com](mailto:rileywheadon@gmail.com)

## EDUCATION

<b>University of British Columbia</b>	Jun. 2026
B.Sc. Honours Mathematics	Average: 93.5%
<b>Westmount Charter School</b>	Jun. 2022
High School Diploma	

## 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,  $\text{\LaTeX}$ .

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

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

## PROJECTS

<b>Canadian Legislation Visualization</b>   <i>Python, pandas, plotly, BeautifulSoup4</i>	Jan. 2023
<ul style="list-style-type: none"> <li>Analyzed trends in 28 years worth of legislative data from the Canadian Government.</li> <li>Built a web scraper to acquire additional information from the Government of Canada's website.</li> <li>Visualized the data using plotly and produced a brief report on the results.</li> </ul>	

## EMPLOYMENT

<b>University of British Columbia</b>   <i>Student Researcher</i>	Apr. 2024 – Present
<ul style="list-style-type: none"> <li>Developed a biologically accurate mathematical model of root growth in <i>Arabidopsis Thaliana</i>.</li> <li>Presented results at the Canadian Undergraduate Mathematics Conference and various other seminars at UBC.</li> <li>Research was conducted as the recipient of an NSERC USRA under the supervision of Dr. Eric Cytrynbaum.</li> </ul>	
<b>University of British Columbia</b>   <i>Teaching Assistant</i>	Sep. 2023 – Present
<ul style="list-style-type: none"> <li>Lectured to classes of over 50 undergraduate students with the support of a graduate student.</li> <li>Provided supplementary instruction during differential and integral calculus workshops.</li> <li>Helped students develop mathematical communication skills through group work and written assignments.</li> </ul>	
<b>Minds in Motion Calgary</b>   <i>Programming Instructor</i>	Apr. 2023 – Aug. 2023
<ul style="list-style-type: none"> <li>Planned and delivered 40 hours of lessons per week on computer programming for campers aged 10-14.</li> <li>Worked closely with a team of over 30 instructors to foster a safe and inclusive learning environment.</li> <li>Ran workshops on science and technology for elementary school students across Calgary.</li> </ul>	
<b>Cambridge Manor</b>   <i>Volunteer Pianist</i>	Jan. 2021 - Jan. 2023
<ul style="list-style-type: none"> <li>Learned and performed piano music for the residents of the Cambridge Manor nursing home in Calgary.</li> <li>Provided entertainment to residents throughout the COVID-19 pandemic and during the holiday season.</li> </ul>	