CHRISTOPHER FINN PLUMMER

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EXPERIENCE

Volunteer Math Tutor
Kalamalka Secondary School

📅 Sept 2017 - June 2018   📍 Coldstream, BC

- **Peer tutored** AP Calculus AB
- Tutored Pre-Calculus 11/12 for students in numerous secondary schools
- Instructed and demonstrated concepts to students of various skill levels
- Used **strong communication skills** to tailor content to be understandable for each unique person

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Junior Accountant
Romei Plummer LLP CPA

📅 March 2015 – April 2018   📍 Vernon,BC

- Assembled, prepared and filed T1 tax returns
- Effectively worked under strict deadlines and in a **professional setting**

PROJECTS

Mathematical Modelling of CAR T-Cells in Adaptive Immunotherapy

- This research paper analyzes an **ODE model of various cell populations** in adaptive immunotherapy. Additionally, the paper introduces regulatory T cells into the **differential equation model** and is analyzed to see if we are able to draw the same conclusions from the original model. The paper was written by Suzanne Wong and myself and was **presented to classmates** and submitted to Dr. Brian Ingalls. PDF available for download at website above.

Hack the North 2020

- Created a proof of concept, Bumped Talk, of a text-to-speech application that reads braille using **computer vision.** I was in charge of writing and designing the **computer vision algorithms** and implementing them from scratch using **Julia**. All code available at website above.

Image Processing

- A personal project that stemmed from my studies in Computational Linear Algebra. This group of **Julia** programs covers various applications of **computational linear algebra** into image processing. Topics include **low-rank approximations, image denoising and image segmentation**. All code available at website above.

Predictive Analytics: From Past to Present

- A white paper I helped contribute alongside two of my peers. It covers a **brief history of predictive analytics** and is written to raise awareness of predictive analytics to other students. The paper was **presented to classmates** and submitted to Dr. Mark Spielmacher. PDF available for download at website above.

EDUCATION

BMath Candadite - Computational Mathematics
University of Waterloo

📅 Sept 2018 – Aug 2021

- UW Merit Scholarship
- BC Achievement Scholarship
- Graduating 4-year Honours Program in 3 years

TECHNICAL SKILLS

- 2+ years of experience in **C++, Julia, Python, MATLAB**
- 2+ years of using **Git, Linux** for project development

PERSONAL SKILLS

- Developed excellent **problem solving** skills that were required to succeed in the diverse abstract and practical problems faced in my mathematics coursework
- Tutoring students, giving presentations on projects and working on infographics has strengthened my ability to **communicate a topic effectively** to a target audience
- Very comfortable working in both an **independent or cooperative** settings

NOTEABLE COURSES

- Advanced Topics in Computer Science: Computational Audio (CS 489)*
- Computational Neuroscience (SYDE 552)
- Numeric Computation for Financial Modeling (CS 476)*
- Applied Cryptography (CO 487)*
- Computational Linear Algebra (CS 475)*
- Computational Modelling of Cellular Systems (BIOL 382)
- Object-Oriented Software Development (CS 246)

Cross-listed Graduate Course

HOBBIES

- Love hiking, biking, skiing and squash
- Strategy board/video games. Chess rocks!
- Listening to and discovering new music