

**George Weasley**  
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Ottery St. Catchpole  
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### **Education**

University of British Columbia 2015 – 2019

*Bachelor of Science, Mathematics and Application in Computer Science*

### **Teaching Experience**

**Undergraduate Teaching Assistant** Sep 2017 – May 2018

Department of Mathematics, University of British Columbia

- Organized mathematics workshops for the mechanical engineering integrated program, MECH 2 (MECH 221, 222).
- Created teaching material, facilitated student learning during the workshops, and graded corresponding exams.

### **Research Experience**

**Research Assistant** Sep 2016 – present

Department of Mathematics, University of British Columbia

- Work with Professor Minerva McGonagall, Researching popular dynamics and evolutionary games

**Summer Research Assistant** May 2017 – Aug 2017

Fraunhofer Institute

- Research on e-learning systems, serious games, automatic target detection, and recognition

### **Presentations**

Undergraduate Summit in Mathematical Biology and Applied PDE May 2017

- Presentation and poster titled “The Role of Magical Transfiguration as applied to Mythical Creatures”

## **Skills/Techniques/Languages**

### Programming Languages

- JavaScript (Advanced)
- C++ (Advanced)
- Ancient Runes (Exceeds Expectations)

### Software

- COMSOL Multiphysics
- Matlab

### N.E.W.T.S

- Alchemy
- Potions
- Arithmancy

## **Notable Courses and Training**

Machine Learning and Data Mining (CPSC 340, UBC) Sep – Dec 2017

- State-of-the-art machine learning techniques
- Predictions on and visualization of high-dimensional data (i.e., biological data)

BCData Datascience Workshop Aug 2017

- Participated in a two-week workshop on current machine learning methods.
- Collaborated with company “Smart Shores” to improve shoreline protection and reduce the impact of flooding on coastal vegetation

Modeling of Cell-Scale Biology (MATH 563, UBC) Sep – Dec 2016

- Concepts and techniques for modeling cellular and subcellular biological systems
- Cell motility and division, continuum mechanics, and membrane dynamics

Mathematical Modeling and Simulation (KIT) Sep 2014 – Feb 2015

- Modeling in the context of applied mathematics
- Course-related research paper: “Impact of Group Decisions on Popular Dynamics”

## **Service**

**Mathematics Representative** Nov 2016 – Jan 2017

### Undergraduate Academic Council

- Represented students in the Department of Mathematics at the Undergraduate Academic Council in the University of British Columbia

**Vice-President Social**

Sep 2016 – Aug 2017

Mathematics Undergraduate Council

- Planned and designed social events for students in the Department of mathematics at the University of British Columbia

**Community Involvement/Outreach****Founder and President**

Jan 2018 – present

St. John's College LGBTQ+ Collective

- Organize biweekly meetings and social events for the residents of St. John's College within the University of British Columbia

**Founder**

Jan 2018 – present

St. John's College Running Club

- Facilitate weekly runs
- Coach club members for Vancouver races year-round

**Volunteer**

Nov 2015 – Aug 2017

AIESEC

- Worked as a mathematics, drama, and English teacher in a local NGO in New Delhi, India

**References**

Professor Albus Percival Wulfric Brian Dumbledore

Headmaster, the University of Hogwarts, British Columbia

lemon.sherbet@hogwarts.ubc.com

Professor Minerva McGonagall

Professor of Transfiguration, the University of Hogwarts, British Columbia

animagus\_meow@hogwarts.ubc.ca

Hermione Jean Granger

Minister of Magic

Underground of Whitehall, London, GB (by owl only)