

Anna Brisland

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EDUCATION

University of British Columbia, Vancouver | Biology, BSc 09/2018 – Present

- Third year student engaged in botany, biotechnology, particularly genetic modification.
- Courses in cell biology, genetics and physiology of systems with experience in sample handling and microscopy techniques.

WORK EXPERIENCE

Kronstad Lab, Department of Microbiology, UBC | Molecular Microbiologist 09/2021 – Present

- Working to identify *de novo* DNA-binding motifs in *Ustilago maydis*.

Kronstad Lab, Department of Microbiology, UBC | Geneticist Assistant 05/2021 – 08/2021

- Increase efficiency of RNASeq read processing pipeline and differential gene expression analysis by 70% using BASH and R.
- Gene pathway analysis using R.
- Autoclave glassware, gel and media preparation and plate pouring.

Fairfield High School | Exam Invigilator 06/2019 – 08/2020

- Oversaw and instructed groups of 90+ students during exam conditions.
- Provided one-on-one support as prompter and reader for students with accessibility requirements.

Data Pi Learning Centre | Tutor 09/2019 – 12/2019

- Taught Math, English, and Science to 20+ students in Grade K – 12.
- Communicated with parents and developed exercises to promote engagement.

PROJECTS

Predicting Gene Function | Project of Interest 02/2021 – Present

- Create a machine learning model to analyze gene function with respect to DNA sequence.
- Data processing of *Arabidopsis thaliana* genome into csv format using Python.

SoundTown | UI Design 07/2021

- Designed a webapp to allow Spotify users to create and join communal listening rooms.

Tomato Seed Germination | Academic Project 01/2021 – 04/2021

- Planned method of experiment to investigate the effects of Gibberellic acid on germination and communicated results effectively through a written and oral technical report.

San Francisco Hacks 2021 | Hackathon 03/2021

- Designed and created a mobile app to increase communication and engage users in active discussion based on current events.

Extended Project Qualification | The Human Gut Microbiome 09/2018

- Researched through literary review the effects of gut microbiota on human health.
- Presented findings to an audience and hosted a Q&A session with 30+ attendees.

University of Birmingham, UK | *E. coli* Genome Analysis 07/2016

- Used restriction enzymes to carry out gel electrophoresis of *E. coli* DNA.
- Experience with bacterial culturing techniques and centrifuge equipment.

INTERESTS

- Advanced in Spanish. Beginner in Japanese.
- Passion in beer and wine fermentation and microbiology.