Rhiannon Cameron

BACHELOR OF SCIENCE MICROBIOLOGY

[Mobile: Omitted]
cmrn.rhi@gmail.com

cmrn-rhi.github.io
GitHub: github.com/cmrn-rhi
linkedin.com/in/rhiannon-cameron

[Address: Omitted]
Burnaby, B.C., Canada

EDUCATION

2019   B.Sc. Microbiology **//** UNIVERSITY OF VICTORIA, B.C.

               GPA: 8 (A) UVIC Grade Scale   4.00/4.33

SKILLS & EXPERTISE

Research Interests // Genomics, Antimicrobial peptides, Human microbiome, De novo assembly, Microbial ecology, Metabolism, Signal transduction pathways, UX design.

Computational // Python (Basics), C++ (Basics), R (Basics), Markdown, Linux/Windows/MacOS Command line/Terminal, Version control, Windows and Google document software suites, Bioinformatics (BLAST, MSA, Genome Databases/Organizers, Phylogenetics), BASH (RegX).

Math/Statistics // Calculus, Linear Algebra, Statistics (e.g. Binomial, Poisson, and Normal distribution; ANOVA; Regression and Correlation).

Laboratory* // Fundamental biochemical, microbiological and molecular biological laboratory techniques including but not limited to: SDS-PAGE, Protein Purification, ELISA, Culturing Hybridomas, Gel Electrophoresis, Molecular Cloning, Transposon Mutagenesis, and PCR.

Other // Graphic Design, TESL, French (Conversational).

my ability to perform laboratory bench work is severely impacted by my disability.

RESEARCH EXPERIENCE

VIRAL BIOINFORMATICS RESEARCH CENTRE // DIRECTED STUDIES STUDENT
SEP 2017 – APR 2018 | UNIVERSITY OF VICTORIA, B.C.

- Produced specifications for, and managed implementation of, bioinformatics tools and interfaces developed at Dr. Chris Upton's Viral Bioinformatics Research Centre (VBRC), while performing analyses of laboratory generated data and unprocessed published data (obtained from PubMed).
- Conducted a literature review and bioinformatic analysis of the novel influenza A virus gene NEG8.
- Developed a theoretical phylogenetic Tree GUI for virus selection in Viral Orthologous Clusters (VOCs) database, and proposed solutions for tools that visualized data in a manner inaccessible to colour blind individuals.

- Studied and reviewed bioinformatics tools for the analysis of virus genomes
- Coached VBRC programmers on the functions of the bioinformatics tools from the perspective of a researcher and regularly made optimization recommendations.
- Presented detailed reports on progress and results, as well as updated VBRC online guides and documentation.

UNIVERSITY OF REGINA // RESEARCH ASSISTANT
MAY 2014 – AUG 2014 | REGINA, S.K.

- Generated significant and well-controlled scientific research results on Sxy toxicity in *Salmonella enterica typhimurium* in a level 2 bio-safety laboratory supervised by Dr. Andrew Cameron and Dr. Ebtihal Al-shabib. Research results added to a manuscript being prepared for peer-reviewed publication.
- Performed laboratory tasks including but not limited to: aseptic pipette technique, PCR amplification and plasmid modification, cell separation, preparation of LB growth media, poured plates, inoculation of agar plates and broths, growth on selective media, colony isolation, serial dilution, plate counts, identification and characterizing of colonies, and gel electrophoresis preparation and application.
- Investigated and identified a source of contamination in the laboratory by testing all available laboratory equipment, surfaces, and media, while keeping thorough documentation of the process.
- Took accurate and comprehensive laboratory notes, now used as a positive example for future members of the laboratory, as well as provided regular slideshow presentations on progress and results.

OTHER EXPERIENCE

BIOCHEMISTRY AND MICROBIOLOGY STUDENT SOCIETY // CO-PRESIDENT (Elected Position)
APR 2015 – DEC 2015 | UNIVERSITY OF VICTORIA, B.C.

- Experience leading and delegating.
- Demonstrated communication and dispute resolution skills.
- Developed and operated within budgets, managerial accounting.
- Organized and managed BMSS events on and off campus.
- Conducted team building and training activities.
- Managed marketing and social media accounts.

NEIL SQUIRE SOCIETY // COMPUTER COMFORT VOLUNTEER
JUL 2019 – Present | BURNABY, B.C.

- Help adults with disabilities develop basic computer skills
- One-on-one remote computer tutoring

Last updated: August 2019