Education:

Highschool diploma, citadel high, 2015

Dalhousie University Halifax, Nova Scotia 2015-present

Bachelor of Science Microbiology and immunology

Training:

* Full biosafety training, from the public health agency of Canada
* Flow cytometry from the Dalhousie faculty of medicine
* Hazardous materials handling and transport with CITI
* WHMIS

Skills:

Laboratory and technical

* Antiseptic technique
* Cell culturing
* Gel electrophoresis (western, southern, and northern blots)
* DNA extraction
* Blood processing
* Bacterial cloning

Computer

* Microsoft Office
* HTML and JavaScript
* Bioinformatics

Communication and presentation

* Scientific poster production and presentation
* Presenting findings to a scientific audience
* Public speaking

Scientific Writing

* Scientific paper writing
* Scientific citation

Publication:

Thornbury, M., Sicheri, J., Slaine, P., Getz, L. J., ⨯, E. F., Cook, J., . . . Craig McCormick ⨯. (2019). Characterization of novel lignocellulose-degrading enzymes from the porcupine microbiome using synthetic metagenomics.*PLoS One, 14*(1) doi:http://dx.doi.org.ezproxy.library.dal.ca/10.1371/journal.pone.0209221

Academic projects:

* Completed Dalhousie Integrated Science Program (DISP) which included engaging in current research resulting in preparation and presentation of a research paper and poster
* Cultured cells, preformed indirect immunofluorescence microscopy and statistical analysis of results
* Wrote research paper on independent research and collaborated with other independent researchers to prepare a science poster which we presented to the general audience
* Oversaw the processing of a bioinformatics pipeline as part of iGEM 2017

Employment History:

Science consultant September 2018-December 2018

Dr. Jamie Allan, NSCAD university, Halifax, Nova Scotia

* Funded through NSERC grant
* Organized the budget for a new geophysics lab
* Oversaw purchasing of equipment directly
* Acted as subject matter expert for scientific topics

Laboratory Technician July 2018- September 2018

Dr.Sharon Oldford, department of microbiology and immunology, Dalhousie University, Halifax, Nova Scotia

* Safely transported HIV+ blood samples
* Processed human blood samples
* Organized processed samples into the lab’s database

Volunteer Experience:

Laboratory Technician January 2018- April 2018

Dr. Jeanette Boudreau, department of microbiology and immunology, Dalhousie University, Halifax, Nova Scotia

* Cultured human epithelial cells: pancreatic and ovarian
* Extracted DNA and preformed genotyping with olerup KIR kit, including PCR and gel electrophoresis
* Extracted RNA using TRIZOL isolation
* Flow cytometry

Laboratory Technician May 2016- August 2016

Dr. Zhenyu Cheng department of microbiology and immunology, Dalhousie University, Halifax, Nova Scotia

* Extracted genes from selected bacteria and inserted into *E. coli* to ease gene culturing and expression
* Cultured *E. coli* and plated on agar for further experimentation
* Preformed DNA gel electrophoresis, PCR, centrifuge, and plasmid minipreparation on a regular basis
* Created JavaScript interactive map detailing results of research in an interesting format for laypeople
* Prepared pipette tip boxes for entire lab and operated autoclave occasionally

Museum Interpreter August 2014 – September 2016

Nova Scotia Museum of Natural History

* Managed apiculture table
* Informed public on native bee species
* Explored observational hive and located queen bee for museum guests

Laboratory Technician June 2013- August 2013

Dalhousie University, department of microbiology and immunology, Halifax, Nova Scotia

* Co-op semester completed during high school
* Mutated cell cultures to express modified protein receptors and examined kinase expression when exposed to recipient protein
* Pipetting, bacteria culturing and RNA gel electrophoresis

Extra-curricular:

* Have been an amateur beekeeper for five years
* Have built my personal computer myself
* Sewing
* Cooking