Nathaniel Olowo

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Objective
To apply chemical, biological, and analytical skills in a research environment either; individually or while working with a team collectively. Seeking opportunities associated with the development of technology; including, hardware and software, genomics and medicine. Interested in the performance, use, and optimization of new products.

Education

M.S. Bioinformatics and Genomics	B.S. Chemistry, Mathematics focus
University of Oregon, Eugene, Oregon	Pacific University, Forest Grove, Oregon
Current	Graduation: May 2018

Experience
<u>Science and Lab experience</u>

Assembly of fungal and bacterial communities in green roofs over time
Microbial community analysis of 16S, 18S, & ITS fungal and bacterial sequencing data. Clustered data into operational taxonomical units, conducted phylogenetic diversity analysis and assessed how community succession changed as a function of time.
PI: Dr. Krista McGuire
University of Oregon, Oregon
October 2018 – present

Computational investigation of the thermal stability of bacteria-based α-amylases with molecular dynamics
Assessed how the thermostability of α-chymotrypsin & amylase changed with/without sucrose present in simulating environment. Worked collaboratively with programmer to provide chemical knowledge of the simulating environment.
PI: Dr. Kevin Johnson
Pacific University, Oregon
May 2017 – August 2017

<u>Work Experience</u>

Care giver, Albertina Kerr facilities
Responsible for catering to and caring for challenged youth. Employees were responsible for preparing food and passing medicine. Trainings included CPR, first aid, and Oregon Intervention System training. Worked independently and collaboratively with co-workers to provide a normal living situation for children who endured some level of abuse.
Manager: Danielle Romero
Gresham, Oregon
May 2017 – June 2018

Maintenance staff for facilities and housing department
Maintained the aesthetics and functionality of Pacific University through maintenance and construction work.
Manager: Scott Druscal
Forest Grove, Oregon
May 2016 – August 2016

Leadership & Skills
- Python, Unix/Linux, R, C++, Front end Web Design, Openmm molecular dynamics toolkit
- Sequence software; BLAST, GSNAP, QIIME, DESeq2, FastQC, Velvet
- Chemistry & biological labware familiarity including spectroscopic devices
- Pacific University, Oregon Basketball team captain October 2014 – March 2018
- Joyful Nations Ministries community clean-up volunteering. Ontario, California May 2010 – August 2014