# Aaron Doe

1743 Mill St. Apt. 2 Eugene, OR 97401 | (916) 320-6458 | adoe@uoregon.edu

## EDUCATION

**Master of Science, Bioinformatics and Genomics Program** ***December 2019 (expected)***
University of Oregon, Knight Campus Internship Programs (Eugene, OR)
GPA: 4.0

**Bachelor of Science in Physics and Mathematics** ***June 2018***
University of Oregon, College of Arts & Sciences (Eugene, OR)
GPA: 3.56

## SKILLS

**Programming Languages:** Python, R, Bash

- Very experienced with writing programs dealing with image analysis, signal to noise ratio, cluster analysis, power spectrum and periodicity in data, and data visualization.

**Bioinformatics Experience:** GSNAP, BLAST, Velvet, PhyloSeq, DESeq2, FastQC

- Experienced with a multitude of bioinformatics datasets and workflows, and optimized them to accommodate various analyses and datasets. For example, used DESeq2 to look at differential gene expression under various conditions.

## EXPERIENCE

**Assembly of fungal and bacterial communities in green roofs over time** ***October 2018 – present***
*Course Research Project*, University of Oregon, McGuire Lab

- Analyzed microbial data from New York City green roofs over a seven year period.
- Used R to format and aggregate data coming from multiple sources.
- Conducted multi-dimensional analyses using R to determine how microbial communities have changed in OTU composition over time.
- Used R packages, such as Phyloseq, to look at alpha and beta diversity in 1,200 bacterial and fungal samples.
- Concluded that microbial communities have stabilized in their composition without any human influence, thus giving new insight into how to build more efficient green roofs.

**Advanced Projects Lab Assistant** ***April 2017 – June 2017***
University of Oregon Physics Departments

- Built and programmed a self-driving RC car using Python.
- Used parallel programming and machine learning to train the car how to react to environmental input and reach its intended destination.

**Intramural Supervisor** ***May 2016 – present***
University of Oregon PE and Rec Department

- Organized and led clinics to train and hire intramural employees.
- Managed all intramural operations on a nightly basis, including conflict management, settling rule disputes, and responding to injuries as well as making crucial decisions.
- Worked with fellow supervisors to improve the intramural program at the university.