

# David Ho

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## SUMMARY OF QUALIFICATIONS

- **Strong quantitative and analytical skills** in molecular biology, genetics, mathematics, biostatistics, and ecology
- **Research experience** during undergraduate and graduate education
- Able to work **independently and collaboratively** to provide results and complete projects
- Effective **written and oral communicator** in order to organize and prioritize multiple tasks
- Programming skills in **Python, R, and Bash**

## RESEARCH EXPERIENCES

### **Graduate Research Project: *Microbial community structure across soils in a tropical forest***

*Department of Biology, University of Oregon | 2017 – Present*

- Analyze data generated from tropical soils to examine microbial interactions with tree species
- Perform data and statistical analyses using QIIME, FUNguild, BLAST, and R
- Communicate weekly with team members and principal investigator (Dr. Krista McGuire)

### **McCormick Scholar Researcher**

*Biology Department, University of Puget Sound | 2013 – 2014*

- Investigated the soil microbial communities and their associations with plant communities in a prairie system using generated 16s rRNA/ITS amplicon data
- Wrote a grant proposal and was awarded complete funding for travel expenses, supplies, and Illumina sequencing
- Utilized molecular techniques (DNA isolation, library preparation) and computational pipelines and programs (QIIME, Python, R) to analyze data
- Presented a poster at 2014 Ecological Society of America Meeting

## RELEVANT EXPERIENCES

### **Program Coordinator**

*Northwest Regional Education Service District, Hillsboro, Oregon | 2016 – 2017*

- Supported staff and Outdoor Science School policies in planning and execution of all phases of the education program
- Trained, mentored, and supervised 20 staff and volunteers in leadership development and conflict resolution
- Collaborated with professionals to evaluate and promote the service experience of the program

### **Field Instructor**

*Northwest Regional Education Service District, Hillsboro, Oregon | 2014 – 2016*

- Taught middle school environmental science and developed teaching materials that meet Oregon Core and Next Generation Science Standards
- Mentored and trained high school and college volunteers as members of a teaching team

### **Writing Advisor**

*Center for Writing, Learning, and Teaching, University of Puget Sound | 2013 – 2014*

- Advised undergraduate students individually and in groups at various stages of the writing process and across disciplines
- Designed and led writing workshops for students in first-year seminars as requested by faculty members

### **Course Assistant**

*Biology Department, University of Puget Sound | 2012 – 2013*

- Assisted lab instructor in executing activities and aided students in independent research projects (Intro to Biology and General Ecology)
- Graded assignments, provided feedback, and held office hours

## EDUCATION

### **Master of Science, Applied Bioinformatics & Genomics**

*University of Oregon, Eugene, Oregon | Anticipated Dec 2018*

### **Bachelor of Science, Biology, *Summa cum laude***

*University of Puget Sound, Tacoma, Washington | 2014*