

# Maddy Griswold

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github.com/maddygriz

## Skills

### Coding Languages

Preferred:  
Python | R | Bash

Experience in:  
C++ | C | SQL

### Coding Tools

Git/Github  
Slurm  
Jupyter

R Markdown

### Data Analysis

Ribosome Profiling  
RNA-seq  
Genomic Analysis  
Machine Learning  
Metagenomics Analysis

### Wet Lab

Capillary Electrophoresis  
Illumina Library Prep  
PacBio Library Prep  
Molecular Techniques

## Education

**Master of Science**, Bioinformatics and Genomics Program

anticipated Dec 2019

**University of Oregon**

Eugene, OR

**Bachelor of Science**, Bioinformatics major, Chemistry minor – GPA: 3.65

May 2018

**Pacific University**

Forest Grove, OR

## Research Experience

**University of Oregon** – *De novo cis-element prediction and discovery in UTRs*

Sept 2018 – current

In collaboration with Stowers Institute for Medical Research (Kansas City, MO)

Eugene, OR

- Created and employed a bioinformatics pipeline using ribosome profiling and RNA-seq data from zebrafish to determine commonalities in UTR sequences that may affect translation efficiency.

**Boston University** – *Determining the Location of Nucleotides Using Hydroxyl Radicals*

Summer 2017

Bioinformatics Research and Interdisciplinary Training Experience

Boston, MA

- Used hydroxyl radicals to cleave folded RNA structures. Determined if individual nucleotides were on the inside or outside of the folded structure. This structural information can be used in molecular modeling the tertiary structure of RNA.
- Presented poster at the Annual Biomedical Conference for Minority Students 2017

## Work Experience

**General Chemistry Teaching Assistant**

Sept 2018 – current

**University of Oregon**

Eugene, OR

- Helped students understand the basics of chemistry during lectures and office hours.
- Ran review sessions and proctored exams for 150+ students.

## Volunteer Experience

**Oregon Health and Science University**

Spring 2016

Critical Care Academics Associates Program volunteer

Portland, OR

- Performed passive range of motion exercises on intubated patients in the respiratory ICUs.
- Recorded and tracked statistics on hygiene issues for the ICU.

**Oregon Museum of Science and Industry**

Jan 2015 – May 2017

Design Lab Volunteer

Portland, OR

- Inspired curiosity through engaging science learning experiences and taught people how to use equipment such as 3D printers and makey makey electronics