

# Ryan Snow

## *Masters of Science*

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### **Personal Statement**

Molecular biologist with special interest in the environment, as well as microbial ecology and nutrient cycling. Experienced in microbiological, molecular, and computational biological settings. Determined to learn and apply new and learned skills, concepts, and techniques. Dependable, organized, capable of independent and collaborative work.

### **Notable Skills & Experiences**

#### **Biological**

- Educator
- Cell line maintenance
- Polymerase Chain Reaction
- Bacterial ligation
- Molecular protocol review
- DNA extraction
- Transformation assays
- Field sampling

#### **Computational**

- R and RStudio
  - Tidyverse
- Git and GitHub
- Bash
- Genomics
  - Next-Gen Sequencing
- Transcriptomics
- Excel

### **Professional History**

#### **Associate Scientist II, NGS**

Azenta Life Sciences

Feb 2024 to Present

South Plainfield, NJ

- Quality control analysis of DNA and RNA samples
- Use of TapeStation to verify ribosomal regions of interest

#### **Lab Researcher**

Rutgers University

Dec 2022 to Dec 2023

New Brunswick, NJ

- Assisted with graduate student and staff research projects
- Implementation of practice to preserve, protect, and archive research data
- Configuration of historic and modern molecular lab spaces
- Molecular biology specialist for lab

#### **Lab Researcher**

University of California, Santa Cruz

Dec 2022 to Oct 2023

Remote

- Research project
  - *Comparative mitogenomic analysis exploring the impacts of climate change across a temporal scale*
- Design of historic and contemporary molecular biology lab spaces
- Reviewer and editor of lab methodologies
- Provided feedback for graduate student projects and presentations

### **Molecular Technologist I**

American Red Cross, National Molecular Laboratory

May 2022 to Oct 2022

Philadelphia, Pennsylvania

- Extraction of patient DNA samples
- Amplification of targeted DNA regions via PCR
- Microarray assay performed to identify the genotype and phenotype of patient hematological antibodies
- Writer and evaluator of FDA approved reports for BeadChip assays
- Analysis of patient DNA sequences for SNP identification

### **Research Assistant**

Rutgers University

Sep 2019 to Aug 2021

Camden, New Jersey

- Research projects
  - *Bioengineering E. coli energy metabolic mechanism for induction of cold tolerance*
  - *Icelandic bdelloidea transcriptomic profiling through differential expression analysis*
- Ligation and transformation of mutated genes of interest
- RNA-Seq and differential expression analysis
- Gene enrichment and physiological analysis

### **Teaching Assistant**

Rutgers University

Sep 2019 to May 2021

Camden, New Jersey

- Preparation of media and bacterial cultures for lab exercises
- Undergraduate lab instructor for basic microbiological techniques and core principles
- Assured students comprehended and properly applied microbiological lab techniques

### **Certifications**

- R Boot Camp for Ecologists and Wildlife Biologists (2023)  
*Center for Wildlife Studies*

### **Education**

#### **Masters of Science: Biology**

Rutgers University

2019 to 2021

Camden, New Jersey

*Thesis: Icelandic bdelloidea transcriptomic profiling through differential expression analysis*

#### **Bachelors of Science: Biology**

Rutgers University

2014 to 2018

Camden, New Jersey