

## CONTACT

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# DR. ALEXIS P. SULLIVAN

## RESEARCH MANAGER AND SCIENTIST



Accomplished biologist with 11+ years of micro- and molecular research experience. Specialties include laboratory operations and optimization, experimental design, protocol development, team building and mentoring, and scientific communication in conference, seminar, and outreach settings.

## SKILLS

### Lab Management

- Monitoring budgets
- Establishing and enforcing standard operating procedures
- Maintaining equipment and purchasing supplies

### Genetics/genomics

- Clean facilities operations
- Specimen subsampling
  - Preserved tissue/fluid
  - Mineralized substrates
- DNA/RNA extraction, purification, quality control
- Library preparation
- DNA captures
- Bioinformatics (R, Python)

### Biochemistry

- Sterile techniques
- Micropipetting
- Polymerase chain reactions
- Gel electrophoresis
- Enzyme and protein assays

### Communication

- 10 peer-reviewed publications
- 2 invited seminar talks
- 10 conference and workshop presentations
- 2 poster awards
- 5 scholarships and fellowships
- Adobe Creative Cloud
- Microsoft Office and 365
- Google Workspace

### Community Outreach

- Skype A Scientist (>700 students)
- ECoS Social Media and Sci Comm panel participant
- Graduate Women in Science workshop volunteer
- PA Junior Academy of Science State Competition Judge

### Leadership

- 2013 RA of the Year
- Naval Junior Reserve Officer Training Corps (NJROTC) - Area 4 Leadership Academy and Sail Training

## EXPERIENCE

### March 2021 - Present

#### Laboratory Supervisor 35 hours per week, \$79,000 per year

*Rational Microbiome Engineering Lab, New York University (NYU) Langone Health*

- Oversee day-to-day operations of microbiology BSL-1 and -2 wet labs of my design
- Supervise the planning and performance of basic and clinical microbiome research
- Coordinate with collaborators and financial admins for funding opportunities

### May 2016 - December 2020

#### Laboratory Safety Officer 20 hours per week, additional to fellowship

*Anthropological Genomics Lab, Pennsylvania State University (PSU)*

- Trained personnel in lab safety, equipment usage, and procedures
- Improved lab facilities and increased experimental efficiency

#### Graduate Research Fellow 40 hours per week, \$34,000 per year

*National Science Foundation (NSF) and Eberly College of Science (ECoS), PSU*

- Designed research experiments in non-model organisms
- Executed successful field research trips in Panama and Madagascar
- Extracted and sequenced DNA from 422 lizards to perform genome-wide association study and population-level analyses
- Developed DNA extraction protocol for modern and ancient conch shells
- Created open access 3D data repositories of osteological materials for endangered and extinct primate species
- Advertised and conducted interviews for researcher positions
- Mentored undergraduate research volunteers

### August 2014 - May 2016

#### Graduate Research Assistant 40 hours per week, \$25,000 per year

*Biology Department, ECoS, PSU*

- Learned pedagogical techniques related to a learner-centered model
- Taught 6 introductory biology lab classes (student evaluations available)

### September 2012 - May 2014

#### Research Assistant 20 hours per week, volunteer position

*School of Natural Sciences and Mathematics (NAMS), Stockton University*

- Created microscopy experiments for genetics lab classes
- Gained experience with biochemical assays for protein purification

#### Chemical Preparation Assistant 20 hours per week, \$12 per hour

*School of Natural Sciences and Mathematics (NAMS), Stockton University*

- Prepared apparatuses and materials for STEM lab coursework
- Conducted safety inspections and inventory surveys

### May-August 2012

#### Bradford E. Brown Intern 40 hours per week, paid internship

*James J. Howard Lab, National Oceanic and Atmospheric Administration (NOAA)*

- Supporting role for ongoing ocean acidification experiments
- Participated in discussions on research best practices and STEM careers

## EDUCATION

2014 - 2020

**Ph.D. in Biology**

*ECoS, PSU, GPA 4.0*

2010 - 2014

**B.S. in Biology, Chemistry Minor**

*NAMS, Stockton University, GPA 3.65*