

Mary Elizabeth Bayruns

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EDUCATION

2012 – 2016

Muhlenberg College

Allentown, PA

B.S. in Biology, *Summa Cum Laude*

SKILLS

Basic GIS	Basic HTML/CSS	Basic Python
Data Entry	Time Management	Statistical Analysis
MS Office Suite	Problem Solving	Quality Assurance/Control
Critical Thinking	Efficient Resource Utilization	Organization

WORK EXPERIENCE

Microbiologist I

November 2019 - Present

EMSL Analytical, Inc.

Identify fungal species via microscope acquired from air samples in domestic and commercial settings to ensure safe environmental health conditions. Prepare microscope slides from air cassettes and bulk samples in a sterile environment. Enter counts into a database and send reports to clients.

Traveling, Seasonal Work in NH and CA

2018 - 2019

Appalachian Mountain Club, Outdoor Journeys

Worked as an outdoor adventure leader in the mountains of California. Completed online GIS coursework on Coursera.

American Conservation Experience

March – June 2018; September – December 2016

Professional Development Trail Crew Member/AmeriCorps Volunteer

Served the community by maintaining hiking trails and wilderness areas throughout Arizona.

Communicated with crewmembers to effectively execute tasks. Performed physical labor for up to 9 hours a day and camped for 8 days at a time in variable weather.

Scribe America

February 2017 – January 2018

Medical Scribe for Outpatient Breast Cancer Surgery

Documented the patient's visit using the electronic medical records system on behalf of the physician so that she may more effectively interact with the patient. Prepared patient charts in a clear, concise manner. Multi-tasked in a fast-paced environment.

Academic Resource Center, Muhlenberg College

2013 - 2016

Peer Tutor

Nominated by professor to tutor Biology. Facilitated understanding of unclear material by meeting with students one hour per week and explained difficult concepts in a simplistic fashion.

Head Tutor

Created and presented various hour-long training sessions throughout the semester for peer tutors; kept tutors informed about important dates via email.

HONORS AND AWARDS

Muhlenberg College

Dean's list (all semesters)

Omicron Delta Kappa Leadership Honor Society

Fall 2014

Phi Beta Kappa Honor Society

Fall 2015

Dr. John V. Shankweiler Award in Biology

Spring 2016

Vaughan Summer Research Grant

Spring 2015

RESEARCH EXPERIENCE

Muhlenberg College

Summer 2015

Research Assistant, Department of Biology, Laboratory of Paul Meier, Ph.D.

Wrote a research grant proposal and received the award from the college. Managed and executed the project studying the effects of long term stress on tree swallow (*Tachycineta bicolor*) and bluebird (*Sialia sialis*) nestlings, using body measurements. Consulted current literature on the topic. Analyzed the data using statistical tests and presented the findings at an undergraduate research forum.

PRESENTATIONS

Assessment of Social Media for a Native Plant Campaign

December 2015

A review of primary literature was used to determine if social media would be beneficial for the Landscapes for Communities and Wildlife Program in their campaign for native plants in the Lehigh Valley. We researched the benefits, limitations, and effective use of communication tools for social media as well as delving into the specifics of Twitter. Our research will be directly utilized by the campaign and assist in their goal of promoting the use of native plants.

“The Effect of Parasite Load and Foot Traffic on Seasonal Corticosterone Levels in *Tachycineta bicolor* and *Sialia sialis* Nestlings” Presented at the Summer Research Poster Session, September 2015, Muhlenberg College.

VOLUNTEERING

Environmental

Trail maintenance with the Sierra Club, at Meadowstone Farms, and at various trash pick-ups.

St. Bernard Project

January 2016

Worked with a group of 11 Muhlenberg students for a week to aid in the reconstruction of a house that was severely damaged by Hurricane Katrina.

Other

Running buddy at Girls on the Run.

LEADERSHIP

Muhlenberg Outdoors Club

2013 - 2016

Secretary

Explored nature by planning various excursions throughout the semester. Lead and managed groups of up to 30 students on trips. Maintained communication with members via email.

Outings Coordinator/Outdoor Nation Campus Representative

2015

Organized activities and recruited participants for the Outdoor Nation Campus Challenge, a competition between universities to get more students active in the outdoors. This included working with local outdoor retailers.

Dress Upon a Star

2014 - 2016

Vice President

Collected used prom dresses and accessories to enrich the experiences of less fortunate high school students in the Allentown area. Organized an annual event at the local high school in which the donated items were available for the students.