ALYSSA DAIGLE

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Current undergraduate student with experience in and a passion for freshwater quality and watersheds in the context of microbial interaction. Interested in laboratory water chemical analyses and researching microbial factors that affect freshwater quality in New England.

EDUCATION

University of New Hampshire, Durham, NH – GPA: 3.92 Expected May 2023
Bachelor of Science in Environmental Conservation and Sustainability

- Focus in Freshwater Sciences

Relevant Coursework: Watershed Water Quality Management, Freshwater Resources, Lake Ecology, General Chemistry, Introduction to Geographic Information Systems

AWARDS

Wildlife Class of 1974 Scholarship 2021-2023
University of New Hampshire

University Dean's Scholarship 2019-2023
University of New Hampshire

LAB AND RESEARCH EXPERIENCE

Lakes Lay Monitoring Program, University of New Hampshire
Laboratory/Field Technician May 2022 – Present

- Collect water samples using Van Dorn, Secchi disk, and YSI ProSolo multiparameter probe/datalogger in the Lakes Region of New Hampshire
- Analyze total phosphorus and nitrogen concentrations using oxidative digestions in an autoclave
- Analyze absorbances of chlorophyll, dissolved color, and total phosphorus using spectrophotometry
- Perform titrations to measure alkalinity, CO_2, and DO
- Measure pH, specific conductivity, and chloride using benchtop probes
- Manage large data sets for water quality samples and parameters recorded by volunteers (Excel and Access)

Ecotoxicology Lab, University of New Hampshire Spring 2022
Undergraduate Researcher, Dr. James Haney and Dr. Amanda McQuaid

- Analyzed aerosolized chlorophyll, phycocyanin, and phycoerythrin pigments under varying temperature differentials using fluorometry
- Presented relevant findings/questions to Ecotoxicology Research Lab and poster presentation at Undergraduate Research Conference (UNH)

PRESENTATIONS

Daigle, A., Dennehy, K., Haney, J., & McQuaid, A. (2022, April). Potential Drivers of Aerosolized Lake Toxins Impacting Public Health. Poster presented at Undergraduate Research Conference, University of New Hampshire.

SCHOLARLY MEMBERSHIP

Xi Sigma Pi, University of New Hampshire 2021-2023

Member, Forestry and Natural Resource Honor Society

- Uphold a high standard of scholarship while completing community service activities

RELEVANT SKILLS

Computational: Microsoft Suite (Acess, Excel), ArcGIS Pro 2.6

Instrumental: Spectrophotometry, Fluorometry, Turbidometry, Benchtop probe analysis, YSI multi-probe and flow systems measurement, Turbidometry, Plankton towing, Tube and point lake sampling, Secchi disk measurement

Other: Trained in Chemical Environmental Management System (CEMS), Adhere to EPA approved Quality Assurance Project Plans (QAPPs) at LLMP