

Alyssa Daigle

MASTER'S STUDENT, MICROBIOLOGY

Department of Molecular, Cellular, and Biomedical Sciences; University of New Hampshire

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Research Interests

Plant-microbe interactions; duckweed green manures; effect of genotypes and co-occurring species on green manure quality; effect of cyanotoxins on safety of green manure

Education

University of New Hampshire

MASTER OF SCIENCE, MICROBIOLOGY

- Advisor: Dr. Anna O'Brien

Durham, New Hampshire

08/2023 - Present

University of New Hampshire

BACHELOR OF SCIENCE, ENVIRONMENTAL CONSERVATION AND SUSTAINABILITY

- Summa Cum Laude

Durham, New Hampshire

08/2019 - 05/2023

Prior Experience

Laboratory/Field Technician

LAKES LAY MONITORING PROGRAM, UNIVERSITY OF NEW HAMPSHIRE

- Sampled New Hampshire lakes and ponds at varying thermal depths to assess overall system health
- Performed nutrient analyses (total phosphorus, soluble reactive phosphorus, total nitrogen) on water samples using oxidative digestions and spectrophotometry
- Analyzed chemical and physical properties of water samples (pH, SPCD, chloride, alkalinity, turbidity, dissolved color, Chlorophyll-a, dissolved oxygen, carbon dioxide)
- Wrote annual highlight reports

Durham, New Hampshire

03/2022 - 08/2023

Undergraduate Researcher

ECOTOXICOLOGY LAB, UNIVERSITY OF NEW HAMPSHIRE

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

Durham, New Hampshire

01/2021 - 05/2021

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.

Teaching Experience

BMS 407: Germs 101 - Graduate Teaching Assistant

UNIVERSITY OF NEW HAMPSHIRE

- Moderated Zoom lectures, graded students, monitored class email account

Durham, New Hampshire

08/2023 - 12/2023

Relevant Skills

Computational: R/RStudio, Microsoft Suite

Wet Lab: Spectrophotometry, Fluorometry, Turbidometry, Benchtop probe analysis, YSI multi-probe and flow systems measurement, 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