

JESSICA OBERLANDER

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CONTACT DETAILS:

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ACADEMIC QUALIFICATIONS

MS in Oceanography (2023)

Dalhousie University, Halifax, NS, CAD

Thesis: "Assessing the Impacts of Simulated Ocean Alkalinity Enhancement on Viability and Growth of Cultures of Near-Shore Species of Phytoplankton"

BS in Biology (2020)

University of Georgia, Athens, GA, USA

Undergraduate Thesis: "Determining the Effects on Buffering Capacity in the western tropical North Atlantic Ocean"

AWARDS & SCHOLARSHIPS

2021 Phi Kappa Pi Joe Ghiz
Memorial Award

2021 Delta Phi Epsilon
Education Foundation
Graduate Student Scholarship

2016-2020 HOPE Scholarship

RELEVANT WORK EXPERIENCE

PROJECT COORDINATOR, OCEAN ALK-ALIGN (SUPERVISOR: PROF. KATJA FENNEL)

Department of Oceanography, Dalhousie University, 2023-Present

- Coordination of project personnel and associated tasks
- Assist with field-work and data management
- Ensuring project deadlines and goals are met in a timely manner

GRADUATE STUDENT, MICROALGAL PROCESS EVALUATION LAB (SUPERVISOR: PROF. HUGH MACINTYRE)

Department of Oceanography, Dalhousie University, 2020-2023

- Testing sensitivity of marine microalgae to hydroxide using a novel assay
- Proficient in axenic culture maintenance, fluorometric pigment analysis, flow cytometry, use of MPN viability assay
- Peer mentor to 5 Co-op students, 2 Honours student

STUDENT LAB ASSISTANT (SUPERVISOR: PROF. PATRICIA YAGER)

Department of Marine Sciences, University of Georgia, 2018-2020

- Measures alkalinity by titration in seawater samples from the Amazon Basin
- Maintained and troubleshooted instrument calibrations
- Trained students on use of instruments

SKILLS

Technical

- Utilizing titration equipment
- *Chlorophyll-a*, pH, and particulate absorbance analysis
- Operation of laboratory instruments
- Knowledge of instrument calibration
- Maintenance of axenic cultures
- Data collection, analysis, and archiving
- Deployment of Niskin Water Samplers
- Preparation of chemical solutions
- Conducting MPN viability assay

Managerial

- Conflict-resolution
- Supervising day-to-day lab tasks
- Quick learner
- Working under pressure
- Working as an individual and as a member of a team
- Attention to detail

Certification

- SSI Certified Advanced Open Water Diver
- Workplace Hazardous Materials Information Systems (WHIMS)
- Radiation Safety
- Authorized to drive Dalhousie trucks

REFERENCES

PROFESSOR HUGH MACINTYRE Department of Oceanography, Dalhousie University

Phone: (902) 494-2932
Email: hugh.macintyre@dal.ca

PROFESSOR LAURA DEGELLEKE Department of Oceanography, Dalhousie University

Email: Laura.Degelleke@dal.ca

PROFESSOR PATRICIA YAGER Department of Marine Sciences, University of Georgia

Phone: (706) 340-2273
Email: pyager@uga.edu

RELEVANT COURSEWORK

- **Masters Classes:** Chemical Oceanography, Biological Oceanography, and Biology of Phytoplankton
- **Bachelors Classes:** Chemical and Biological Oceanography, Marine Biology, Environmental and Biological Fish Anatomy, Conservation Biology, Genetics, Statistics, Marine Mammals, Cell Biology, and Scientific Diving I & II
- **Undergraduate research work** on alkalinity in the western tropical North Atlantic Ocean that culminated in a thesis

OTHER RELEVANT WORK EXPERIENCE

- **Teaching Assistant for Prof. Laura deGelleke in Dept. of Oceanography, Dalhousie (2021-2022)**
 - Lead breakout sessions for 1.5 hours per week, mark student assignments and provide constructive feedback, and meet weekly with the class professor to discuss class materials
- **Front Desk Clerk: Student Shift Lead (2018-2020)**
 - Responsible for guest check-in and resolving issues, provided courteous service, acting manager when no full-time manager was on duty

CONFERENCE PRESENTATIONS

- **Conference of Dalhousie Oceanography Graduate Students (CDOGS) - March 2022**
 - Assessing Phytoplankton Viability in the Context of Ocean Alkalinity Enhancement - Testing the Test (Oral Presentation)
- **Ocean Frontier 2022: Science, Industry, Policy for Climate Change (OFI) - May 2022**
 - Assessing Phytoplankton Viability in the Context of Ocean Alkalinity Enhancement - Testing the Test (Poster Session)
- **ASLO Aquatic Sciences Meeting - June 2023**
 - Assessing the Impacts of Simulated Ocean Alkalinity Enhancement on Viability and Growth of Cultures of Near-Shore Species of Phytoplankton (Oral Presentation)

VOLUNTEER ACTIVITIES

- **Member of the Department of Oceanography Graduate Student Association (2020-2023)**
 - Positions held: Social Committee (2020-2021), Conference of the Department of Oceanography Graduate Students committee (2020-20221), Treasurer (2021-2022), CDOGS co-organizer (2022-2023), and Riley Lecture co-organizer (2022-2023)
 - Oversaw the budget and allocation of funds for the graduate student association
- **Volunteer at the Georgia Aquarium (2019-2020)**
 - Responsible for assisting guests, taking classes on exhibits, and staying up to date on aquarium policies
 - Collective 30 hours logged
- **Alumnae member of Delta Phi Epsilon International Sorority (2017-2020)**
 - Positions held: Philanthropy coordinator (2018) and Vice President of Programming (2019)
 - Oversaw a budget of \$15,000 for planning and executing all philanthropy events
- **Fundraised for Relay for Life all four years of Bachelors degree (2016-2020)**