Dilan Sunthareswaran

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Vancouver, BC

SKILLS AND QUALIFICATIONS

Software Analysis & Misc. Software: R Studio, MATLAB, Excel

Emphasis Coursework: Biological Oceanography, Chemical Oceanography and Marine Geochemistry, Methods in Oceanography, Marine Pollution, Aquatic Ecosystems and Fish in Forested Watersheds

License and Certificates: Class 5 BC Drivers' License, Standard First Aid – CPR Level C, WHIMIS (UBC), Intrduction to Laboratory Saftey (UBC), Chemical Safety (UBC), Workplace Violence Prevention (UBC), Preventing and Addressing Workplace Bullying and Harassment (UBC)

EDUCATION

The University of British Columbia Bachelor of Science – Combined Honours of Biology and Oceanography

The University of British Columbia

Masters of Oceanography – Supervised by Brian Hunt (b.hunt@oceans.ubc.ca)

RESEARCH EXPERIENCE

Using Marine Fatty Acid Data to Estimate The Nutrtional Quality of Micronektonic Organisms in the B.C Coastal Ocean, *UBC*

Lead Author - Honours Thesis Project supervised by Brian Hunt To be submitted to a journal for publication

- Conducted sample processing which included selecting appropriate samples for analysis, dissecting, weighing and freeze drying muscle tissue for fatty acid analysis
- Utilized R Studio and Excel to create figures (including boxplots and PCA plots), tables and conduct stastical tests
- Wrote a full manuscript on the project including descriptions of the methods and the nutritional variability across species and regions in the B.C coastal ocean.
- Created a poster that summarized the project and defended the thesis with a poster presentation

The Effect of pH an Salt Stress on the growth of Saccharomyces cerevisiae gvp36 mutant, UBC

Co-Author – Final project for Introductory Molecular Biology Laboratory (BIOL 340) supervised by Maryam Moussav (moussavi@zoology.ubc.ca)

Inivited for publication in the Student Journal of Cell and Molecular Biology

- Created a research question and collobrated with a team to organize a research plan for sample processing
- Processed samples using different molecular biology techniques including vacuole & cell wall staining and mass spectrometry
- Utilized R Studio and Excel to create figures (including growth curves and boxplots), tables and conduct stastical tests
- Wrote a full manuscript on the project including descriptions of the methods and the differences of cell growth rate between various pH and salt treatments
- Presented the project including details of the background, methods, results and implications to the BIOL 340 class

Graduated November 2022

Expected Graudation Septmber 2024

2021

2022

WORKSHOPS AND CONFERENCE PRESENTATIONS

Salish Sea Ecosystem Conference

Created a snapshot video (link) presentation on my project Using Marine Fatty Acid Data to Estimate the Nutrtional Quality of Micronektonic Organisms in the B.C Coastal Ocean.

WCVI Chinook Marine Risk Assessment Workshop

Co-presented with Jacob Lerner (j.lerner@oceans.ubc.ca)

Presented the results from my project Using Marine Fatty Acid Data to Estimate the Nutrtional Quality of Micronektonic Organisms in the B.C Coastal Ocean. This workshop focused on nutrition and changes in prev quality, availability, timing and competition affecting west coast Vancouver Island Chinook.

GRANTS AND AWARDS

NSERC URSA

- 16-week work-term (35 hours per week) working on a research project investigating the nutritional variability of micronektonic organisms in the Gulf of Alaska
- Conducted sample processing which included selecting appropriate samples for analysis, dissecting, weighing and freeze drying muscle tissue for fatty acid analysis
- Performed fatty acid extraction using a one-step FA methyl ester (FAME) method

EXTRACURRICULARS

Biology Undergraduate Diversity In Research (BUDR) Mentorship

The BUDR program aims to provide opportunities for undergraduates belonging to underrepresented groups. As a BUDR mentor, I mentored three undergraduate students and meet with them once a week to provide guidance and insights on career and academic development. Specifically, I have helped students with graduate school applications, finding student research oppurtunities, and provided advice with coursework.

REFERENCES

Available upon request

April 2022

May 2022

Ocrober 2022 – Present

May 2022 – August 2022