

Bay **Berry**

MSc Student - Laboratoire de Dynamique et Gestion Intégrée des Zones Côtières

Université du Ouébec à Rimouski. Ouébec

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Education

Université du Québec à Rimouski

Rimouski, QC

MSc Geography

September 2020 - Present

Sub-seasonal sediment flux from cold-temperate coastal cliffs: the contribution of cryogenic processes to total erosion at Rivière-Saint-Jean,
 Quebec

Dalhousie University

Halifax, NS

BSc Earth Sciences (Honours)

September 2016 - May 2020

• Quantifying impacts of spatial resolution on pixel and object-based methods of image classification: A case study of identifying estuarine morphology in Cobequid Bay, Nova Scotia, Canada

Experience

Researcher & Field Assistant

Tuktoyaktuk, NT

HAMLET OF TUKTOYAKTUK

June 2021 - September 2021

- Prepared website content to communicate climate change impacts on the community of Tuktoyaktuk
- Assisted in field outings and training sessions for the Tuktoyaktuk Climate Change Resiliency Project
- Assisted in UAV surveys, water and sediment sampling, and various other field activities in the Mackenzie Delta-Beaufort Sea coastal region
- Prepared submission to the Disaster Mitigation and Adaptation Fund

Teaching Assistant Halifax, NS

DALHOUSIE INTEGRATED SCIENCE PROGRAM

January 2020 - April 2020

• Assisted during labs for the Earth Sciences component of the Dalhousie Integrated Science Program

Research Assistant

DALHOUSIE UNIVERSITY MARINE AFFAIRS PROGRAM

Halifax, NS January 2020 - April 2020

 Prepared oyster samples for a range of tests for the investigation of trophic and ecosystem effects via stable isotopes, lipid analyses, and chlorophyll-a extraction and measurement

Research Assistant Halifax, NS

DALHOUSIE UNIVERSITY DEPT. OF OCEANOGRAPHY

August 2019 - December 2019

- Prepared seaweed (Chondrus crispus) samples for nitrogen content and isotopic analysis; included subsampling, drying, crushing, weighing, and preparing for submission to lab for analysis
- Assisted with installation and collection of sample growth stations, in the field and lab

GIS Technician & Field Assistant

Dartmouth, NS

NATURAL RESOURCES CANADA

January 2019 - August 2019

- Processed and interpreted historical images, Unmanned Aerial Vehicle (UAV) surveys, and environmental records to produce reports relating to long-term weather and erosion conditions on the Beaufort Sea coast and flood risk in Tuktoyaktuk, Northwest Territories
- · Assisted in UAV surveys, geophysical and chemical sampling, and various other field activities in the Mackenzie Delta-Beaufort Sea coastal region
- Assisted individuals with the use of ArcGIS StoryMaps and QGIS

Research Assistant Halifax, NS

DALHOUSIE UNIVERSITY DEPT. OF EARTH AND ENVIRONMENTAL SCIENCES

September 2018 - December 2018

- Planned and conducted collection of mussels (Mytilus edulis) and water samples from coastal sites around mainland Nova Scotia
- · Prepared samples for isotopic analysis

Interpreter Joggins, NS

JOGGINS FOSSIL CENTER

May 2018 - August 2018

- Guided 30-minute and 2-hour tours of the Joggins Fossil Centre museum and fossil site in English and French, with emphasis on the pillars of the site's UNESCO World Heritage Site designation; the fossil record, the value of the cliffs, and the history of scientific discovery
- Communicated with visitors, coordinated tour bookings, and answered inquiries about the site via phone, e-mail, and in person
- Performed transactions for admission and store purchases

Skills

Data Science R, ArcGIS, QGIS

Research Coastal geomorphology, permafrost, geospatial analysis

Languages English/French (bilingual)

Awards

POLAR KNOWLEDGE CANADA

Northern Scientific Training Fund

Graduate Entrance Scholarship

Rimouski, QC

Universitã© du Quã©bec à Rimouski 2020

2020

Halifax, NS

First Class Honours and University Medal in Earth Sciences

Dalhousie University 2020

MacEachern-Ponsford Award

Halifax, NS

Dalhousie University Dept. of Earth Sciences 2018

Barlow Award Halifax, NS

Dalhousie University Dept. of Earth Sciences 2018

Undergraduate Entrance Scholarship Halifax, NS

Dalhousie University 2017

Publications and Presentations

- 1. Berry, H. B., Whalen, D., & Lim, M. (2021). Long-term ice-rich permafrost coast sensitivity to air temperatures and storm influence: Lessons from pullen island, northwest territories, canada. *Arctic science*, 7(4), 723-745.
- 2. Berry, H. B., Whalen, D., Didier, D., Stuckey, S., & Bernatchez, P. (2021). Sub-seasonal thermal regime of eroding permafrost bluffs at tuktoyaktuk island. *Poster presented at the annual scientific meeting of arcticnet*.
- 3. Howarth, L., Filgueira, R., Haas, S., Berry, H., McKee, A., Steeves, L., & Grant, J. (2020). The effects of incubation time, temperature and nitrogen concentration on the isotopic signature (⊠15N) of the macroalga chondrus crispus. *Journal of experimental marine biology and ecology*, *530*, 151431.
- 4. Lim, M., Whalen, D., J Mann, P., Fraser, P., Berry, H. B., Irish, C., Cockney, K., & Woodward, J. (2020). Effective monitoring of permafrost coast erosion: Wide-scale storm impacts on outer islands in the mackenzie delta area. *Frontiers in earth science*, 454.
- 5. Lim, M., Whalen, D., Martin, J., Mann, P., Hayes, S., Fraser, P., Berry, H., & Ouellette, D. (2020). Massive ice control on permafrost coast erosion and sensitivity. *Geophysical research letters*, *47*(17), e2020GL087917.
- 6. Berry, H. B. (2020). Quantifying the influence of spatial resolution in identifying estuarine morphology using remote sensing methods; observations from cobequid bay, n.s. *Paper presented at the colloquium of the atlantic geoscience society*.
- 7. Berry, H. B., Whalen, D., & Lim, M. (2019). Permafrost coast sensitivity to temperature and storm influence on pullen island, n.w.t. *Poster presented at the atlantic universities geoscience conference*.
- 8. Berry, H. B., Whalen, D., & Lim, M. (2019). Permafrost coast sensitivity to temperature and storm influence on pullen island, n.w.t. *Poster presented at the annual scientific meeting of arcticnet*.