



Evan R Muise

PHD STUDENT - REMOTE SENSING AND CONSERVATION
University of British Columbia, Vancouver

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Experience

PhD Student

Vancouver, BC

FACULTY OF FORESTRY (UNIVERSITY OF BRITISH COLUMBIA)

June 2020 - Present

- Monitoring Forest Structural Integrity Across a Range of Regional Ecosystems.
 - Identified placement bias in the British Columbian protected area network for ecosystem and land cover classes
 - Identified missing forest structures in the British Columbian protected area network across a range of ecosystems

Graduate Teaching Assistant

Vancouver, BC

FACULTY OF FORESTRY (UNIVERSITY OF BRITISH COLUMBIA)

September 2020 - Present

- Leading & supervising applied exercises to guide student knowledge of remote sensing and coding concepts.
 - GEM 530 - Geospatial Data Analysis (Fall 2020)
 - CONS 127 - Observing the Earth from Space (Spring 2021)
 - CONS 340 - Introduction to Geographic Information Systems for Forestry and Conservation (Fall 2021)
 - CONS127 - Observing the Earth from Space (Head TA; January 2022 - December 2023)

Teaching Assistant

Halifax, NS

DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCE (DALHOUSIE UNIVERSITY)

January 2020 - May 2020

- Leading & supervising applied exercises to guide student knowledge of environmental issues in the earth sciences.
 - ENVS2410 - Environmental Issues in Earth Sciences
 - Introduced and aided students with activities related to mapping and environmental contaminants.

Junior Program Officer (PM-01)

Vancouver, BC

INDIGENOUS PARTNERSHIPS OFFICE - WEST (NRCAN)

September 2018 - May 2019

- Report Preparation
 - Data Maintenance and Cleaning
 - Liaisons with Indigenous Groups

Undergrad Research Assistant

Halifax, NS

REMLAB (DALHOUSIE UNIVERSITY)

May 2018 - August 2018

- Organized and conducted urban forestry field campaigns.
 - Data Collection, Entry, Cleaning, and Analysis
 - Public Outreach Regarding Urban Forests

Education

University of British Columbia

Vancouver, BC

PHD REMOTE SENSING AND CONSERVATION

June 2020 - Present

- Monitoring Forest Structural Integrity Across a Range of Regional Ecosystems

Dalhousie University

Halifax, NS

BSC ENVIRONMENTAL SCIENCE (HONS)

September 2015 - May 2020

- Emerging Hot Spot Analysis and Forests: A Case Study on the Hemlock Woolly Adelgid's Invasion into Nova Scotia using Fine Spatial Resolution Satellite Imagery.

Skills

Data Science	R, Python, ArcGIS, Google Earth Engine
Research	Protected area design and monitoring, forest structure and productivity, reproducibility, geospatial analysis
Collaboration	Experience working with academic, Indigenous, and government groups
Writing	Scientific publications, funding grants, reproducible reporting (Rmarkdown, bookdown)
Communication	Confident public speaker, reproducible graphics and maps
Languages	English/French (bilingual)

Awards

Undergraduate Research Funding

NSERC USRA

- Funding for Urban Forestry Summer Internship with REMLab

Halifax, NS

2018

Journal Articles

1. Muise, E. R., Andrew, M. E., Coops, N. C., Hermosilla, T., Burton, A. C., & Ban, S. S. (2023). Disentangling linkages between satellite-derived forest structure and productivity essential biodiversity variables. *Scientific Reports*.
2. Muise, E. R., Coops, N. C., Hermosilla, T., & Ban, S. S. (2022). Assessing representation of remote sensing derived forest structure and land cover across a network of protected areas. *Ecological Applications*.

Presentations

Documenting Structural Land Cover Change and Disturbance across Provincial BC Parks for Biodiversity Assessment

BC PARKS LIVING LAB COLLOQUIUM

Monitoring forest structural representation across a network of protected areas.

FORESTSAT

Online

December 2020

Berlin, Germany

September 2022