

Casey Engstrom

✉ cengstro@sfu.ca 🌐 cengstro 🐦 @CaseyEngstrom 📷 casey.engstrom ☎ (778)861-3053

Education

2018-current

PhD Candidate, Simon Fraser University, Vancouver Metro, BC, Canada

Molecular Biology and Biochemistry

Tentative thesis title: "Cells to Satellite: Snow Algae Biogeography and Biodiversity"

Supervisor: Prof. Lynne Quarmby

CGPA 4.24/4.33

Coursework:

MBB741 Bioinformatics

BISC869 Biostatistics

MBB841 Bioinformatics Colloq

STAT641 Intro Stat Comp in R

STAT652 Intro to Stat Learning

2008 - 2013

BA, Middlebury College, Middlebury, VT, USA

Biology major

Physics minor

CGPA 3.47/4.00

Publications

Peer-reviewed

[Google scholar profile](#)

2020

Engstrom, C. B., Yakimovich, K. M., & Quarmby, L. M. (2020). Variation in Snow Algae Blooms in the Coast Range of British Columbia. *Frontiers in Microbiology*, 11.

<https://doi.org/10.3389/fmicb.2020.00569>

Yakimovich, K. M., Engstrom, C. B., & Quarmby, L. M. (2020). Alpine Snow Algae Microbiome Diversity in the Coast Range of British Columbia. *Frontiers in Microbiology*, 11.

<https://doi.org/10.3389/fmicb.2020.01721>

In press

Yakimovich, K. M., Gauthier, N. P., Engstrom, C. B., Leya, T., & Quarmby, L. M. A Molecular Analysis of Microalgae from Around the Globe to Revise the Genus *Raphidonema*. *Journal of Phycology*.

Science communication

Engstrom, C., & Quarmby, L. (2019). Watermelon snow: A microscopic serengeti. *Alpine Club of Canada State of the Mountains Report*, 40–41. <https://blog.alpineclubofcanada.ca>

Presentations

2020

Snow Algae Meeting, Prague, Czech Republic (Online)

2019

SFU Omics Club Monthly Meeting, Burnaby, BC, Canada

UBC/SFU/UVic Ecology and Evolution Retreat, Squamish, BC, Canada

SFU MBB Student Colloquium, Burnaby, BC, Canada

Scholarships

2020

Weyerhaeuser Graduate Scholarship (SFU MBB)

2019

Graduate Fellowship (SFU MBB)

Graduate Fellowship (SFU MBB)

2018

Graduate Fellowship (SFU MBB)

Weyerhaeuser Graduate Scholarship (SFU MBB)

TA

2012

Vertebrate Natural History. Middlebury College

Optics, Thermodynamics, and Waves. Middlebury College

2011

Ecology and Evolution. Middlebury College

2010

Ecology and Evolution. Middlebury College

Science communication

2015

Interpretive Ranger, North Cascades National Park

2014 Naturalist, Appalachian Mountain Club

Service 2020 HackSeqRNA Fundraising Committee (UBC/SFU)
2019 Omics Organizing Committee (SFU)

Technical skills
Could lead workshops
R
Google Earth Engine (javascript API)
Proficient
Python
Bash
Git
HPC