## Casey Engstrom CV

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https://github.com/cengstro/

https://caseyengstrom.ca

### PhD Candidate, Molecular Biology and Biochemistry

Simon Fraser University in Burnaby BC, Canada. Expected completion April 2023

BA Biology, Physics Minor Middlebury College in Middlebury VT, USA. 2013

### **Publications**

- Engstrom CB, Williamson SN, Gamon JA, Quarmby, LM. Seasonal development and radiative forcing of red snow algal blooms on two glaciers in British Columbia, Canada, summer 2020. Remote Sensing of Environment (*In revision*)
- Raymond BB, **Engstrom CB**, Quarmby LM. The underlying green biciliate morphology of the orange snow alga *Sanguina aurantia*. Current Biology 32, R68–R69. <a href="https://doi.org/10.1016/j.cub.2021.12.005">https://doi.org/10.1016/j.cub.2021.12.005</a> (2022).
- Yakimovich KM, Gauthier NP, Engstrom CB, Leya T, Quarmby LM. A Molecular Analysis of Microalgae from Around the Globe to Revise *Raphidonema* (Trebouxiophyceae, Chlorophyta). Journal of Phycology 57, 1419–1432. <a href="https://doi.org/10.1111/jpy.13183">https://doi.org/10.1111/jpy.13183</a> (2021).
- Yakimovich KM, Engstrom CB, Quarmby LM. Alpine Snow Algae Microbiome Diversity in the Coast Range of British Columbia. Frontiers in Microbiology 11. <a href="https://doi.org/10.3389/fmicb.2020.01721">https://doi.org/10.3389/fmicb.2020.01721</a> (2020).
- Engstrom CB, Yakimovich KM, Quarmby LM. Variation in Snow Algae Blooms in the Coast Range of British Columbia. Frontiers in Microbiology 11. <a href="https://doi.org/10.3389/fmicb.2020.00569">https://doi.org/10.3389/fmicb.2020.00569</a> (2020)

### Presentations

Virtual Student Colloquium, SFU Dept. Molecular Biology and Biochemistry. Short talk, 2021

Virtual International Snow Algae Meeting, Prague, Czech Rep. Short talk, 2020

Student Colloquium, SFU Dept. Molecular Biology and Biochemistry. Short talk, 2019

Monthly Meeting, SFU Omics Group. Short talk, 2019

EcoEvo Retreat, Squamish, BC. Awarded best short talk, 2019

Student Colloquium, SFU Dept. Molecular Biology and Biochemistry. Poster, 2018

# Teaching and mentorship

Research programming peer for SFU Library Research Commons from 2020 - present

Developed and led two-day Intro to Google Earth Engine workshop, offered three times

Co-taught two-day Intro to R and 1-hr RMarkdown & web scraping workshops

Provided R consultations for SFU researchers

Teaching assistant for MBB243 Data Analysis for Molecular Biology, Spring 2022

2022-05-27

#### Mentored undergraduate NSERC USRA and honours thesis students:

Anastasia Bogdanovic, Fall 2021 and Spring 2022 Joud Albeitshawish, Fall 2020 and Spring 2021

Teaching assistant while undergraduate at Middlebury College:

BIOL340 Vertebrate Natural History, 2012 PHYS110 Optics, Thermodynamics, and Waves, 2011 BIOL140 Ecology and Evolution, 2010 and 2011

### Outreach and service

Elementary science outreach volunteer for Skype a Scientist (2021)

Hackathon organizer and participant for HackSeq Vancouver (2020)

Student group organizer for SFU Omics (2019)

Co-authored magazine article describing our research, see <a href="Engstrom CB">Engstrom CB</a> and Quarmby LM (2019).

Watermelon snow: a microscopic serengeti. Alpine Club of Canada State of the Mountains Report 40–41.

### **Fellowships**

Four-time recipient of SFU Molecular Biology and Biochemistry Graduate Fellowship (2018-2022)

Three-time recipient of SFU Weyerhaeuser Molecular Biology Graduate Scholarship (2018-2022)