

# Casey Engstrom CV

casey\_engstrom@sfu.ca

(778) 861-3053

<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 from 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 second round of review*)

Raymond BB, Engstrom CB, Quarmby LM. The underlying green biciliate morphology of the orange snow alga *Sanguina aurantia*. *Current Biology* 32, R68–R69 (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 (2021)

Yakimovich KM, Engstrom CB, Quarmby LM. Alpine Snow Algae Microbiome Diversity in the Coast Range of British Columbia. *Frontiers in Microbiology* 11 (2020)

Engstrom CB, Yakimovich KM, Quarmby LM. Variation in Snow Algae Blooms in the Coast Range of British Columbia. *Frontiers in Microbiology* 11 (2020)

## Presentations

Virtual Student Colloquium, SFU Dept. MBB (2021)

Virtual International Snow Algae Meeting, Prague, Czech Republic (2020)

Student Colloquium, SFU Dept. MBB (2019)

Monthly Meeting, SFU Omics Group (2019)

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

Student Colloquium, SFU Dept. MBB. Poster (2018)

## 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)

## Teaching and mentorship

### **Research programming peer** for SFU Library Research Commons, 2020–present

- Developed and led two-day Intro to Google Earth Engine workshop, delivered 3x upon request
- Co-taught Introduction to R, RMarkdown, and Web Scraping workshops
- Provided R consultations for SFU researchers

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

### **Mentored undergraduate students**

- Anastasia Bogdanovic, Fall 2021 & Spring 2022 (NSERC USRA and honours thesis)
- Joud Albeitshawish, Fall 2020 & Spring 2021 (NSERC USRA and honours thesis)

### **Interpretive naturalist**

- North Cascades National Park, 2015
- Appalachian Mountain Club, 2014

### **Teaching assistant** as undergraduate at Middlebury College

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

## Outreach and service

### **Elementary school 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 lab's research

- Engstrom CB and Quarmby LM. Watermelon snow: a microscopic serengeti. The Alpine Club of Canada's State of the Mountains Report 2, 40–41 (2020)

## Field experience

### **Avian/botanical research technician**

- Bird Conservancy of the Rockies, Wyoming, 2016
- Hayden-Wing LLC, Wyoming, 2016
- Northern Arizona University, 2015
- USGS Western Ecological Research Center, Nevada, 2013
- Alaska Maritime National Wildlife Refuge, 2011 & 2012