

# Casey Engstrom

PHD CANDIDATE

Simon Fraser University Department of Molecular Biology and Biochemistry

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## Education

### Simon Fraser University

PHD CANDIDATE, MOLECULAR BIOLOGY

- Tentative thesis title: "Snow Algae Biodiversity and Biogeography: From Single-Cell to Satellite"

Metro Vancouver, BC

2018–current

### Middlebury College

BA BIOLOGY, PHYSICS MINOR

Middlebury, VT

2008–2013

## Publications

Yakimovich, K. M., Gauthier, N. P. G., Engstrom, C. B., Leya, T., & Quarmby, L. M. (2021). A molecular analysis of microalgae from around the globe to revise *Raphidonema* (trebouxiophyceae, chlorophyta). *Journal of Phycology*, n/a. <https://doi.org/10.1111/jpy.13183>

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>

## Presentations

### MBB Student Colloquium

TRACKING SNOW ALGAE BIOGEOGRAPHY AND TRENDS USING REMOTE SENSING

Burnaby, BC (virtual)

2021

### Snow Algae Meeting

BLOOM OR BUST: REMOTE SENSING INTERANNUAL VARIATION IN PINK SNOW ALGAE BLOOMS

Prague (virtual)

2020

### MBB Student Colloquium

EXPLORING THE DIVERSITY IN SNOW ALGAE BLOOMS USING AMPLICON SEQUENCING

Burnaby, BC

2019

### SFU Omics Group Monthly Meeting

EXPLORING DIVERSITY IN SNOW ALGAE BLOOMS: SHAPESHIFTING CELLS, RED-HANDED TARDIGRADES, AND VAMPIRE FUNGI

Burnaby, BC

2019

### EcoEvo Retreat

DISTINCT ALPINE SNOW ALGAE COMMUNITIES ALONG AN ELEVATIONAL GRADIENT

Squamish, BC

2019

- Awarded best 3 minute talk

## Workshop leader

### SFU Library Research Commons

INTRO TO GOOGLE EARTH ENGINE

2021

## Science communication

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

## Mentoring

UNDERGRADUATE HONOURS THESIS

2021

- Joud Albeitshawish

## Awards/Funding

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GRADUATE FELLOWSHIP	2021
WEYERHAUSER FELLOWSHIP	2020
GRADUATE FELLOWSHIP (X2)	2019
WEYERHAUSER FELLOWSHIP	2018

## Teaching assistant

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OPTICS, THERMODYNAMICS AND WAVES, MIDDLEBURY COLLEGE DEPT. PHYSICS	2012
VERTEBRATE NATURAL HISTORY, MIDDLEBURY COLLEGE DEPT. BIOLOGY	2012
ECOLOGY AND EVOLUTION, MIDDLEBURY COLLEGE DEPT. BIOLOGY	2011

## Service

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OMICS ORGANISING COMMITTEE	2019
HACKSEQRNA FUNDRAISING COMMITTEE	2020