

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"
- CGPA 4.24/4.33

Metro Vancouver, BC

2018–current

Middlebury College

BA BIOLOGY, PHYSICS MINOR

- CGPA 3.47/4.00

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

- Joud Albeitshawish

2021

Awards/Funding

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

Teaching assistant

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

OMICS ORGANISING COMMITTEE	2019
HACKSEQRNA FUNDRAISING COMMITTEE	2020