

Casey Engstrom

PHD CANDIDATE

Simon Fraser University Dept. Molecular Biology and Biochemistry

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Education

Simon Fraser University

PHD CANDIDATE MOLECULAR BIOLOGY

- Thesis title: "Cells to Satellite: Biodiversity and Biogeography of Watermelon Snow"

Burnaby BC

current

Middlebury College

BIOLOGY MAJOR, PHYSICS MINOR

Middlebury VT

2013

Publications

IN REVIEW

Raymond, B., Engstrom, C., & Quarmby, L. (n.d.). The underlying green bi-ciliate morphology of the orange snow alga, *Sanguina aurantia*. *Correspondence in Current Biology*.

PUBLISHED

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*, 57(5), 1419–1432. <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

- 2021 Student Colloquium, SFU MBB Grad Caucus
- 2020 International Snow Algae Meeting, Fraunhofer IZI-BB
- 2019 Student Colloquium, SFU MBB Grad Caucus
- 2019 Monthly Meeting, SFU Omics Group
- 2019 EcoEvo Retreat, SFU, UBC, Uvic
- 2018 Student Colloquium, SFU MBB Grad Caucus

Relevant work history

- 2021 — Research Programming Peer, SFU Library Research Commons
- 2018 — Research Assistant, SFU Dept. MBB
- 2012 TA, Optics, Thermodynamics and Waves, Middlebury College
- 2012 TA, Vertebrate Natural History, Middlebury College
- 2011 TA, Ecology and Evolution, Middlebury College

Workshop leader

- 2021 Intro to Google Earth Engine
- 2021 Intro to R
- 2021 RMarkdown

Mentorship

- 2021 Joud Albeitshawish, Undergraduate honours thesis
- 2021 Anastasia Bogdanovic, NSERC USRA student

Science communication

OUTREACH

2021 Elementary Science Outreach Volunteer, Skype A Scientist

MAGAZINE ARTICLES

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

Committees

2020 Fundraising committee, HackSeqRNA

2019 Organizer, Omics Student Group

Scholarships

2022 Graduate Fellowship, \$7000

2021 Graduate Fellowship, \$7000

2021 Weyerhaeuser Molecular Biology Graduate Scholarship, \$7000

2020 Weyerhaeuser Molecular Biology Graduate Scholarship, \$7000

2019 Graduate Fellowship, \$6500

2019 Graduate Fellowship, \$6500

2018 Weyerhaeuser Molecular Biology Graduate Scholarship, \$6500