

LAURINNE BALSTAD

lbalstad@ucdavis.edu

EDUCATION

- 2021-Present** University of California, Davis
Population Biology Graduate Group
MS 2023, PhD expected 2026
- 2017-2021** St. Olaf College, Bachelor of Arts
Mathematics and Biology, Summa Cum Laude

PUBLICATIONS

Balstad, Laurinne, Binning, Sandra, Craft, Meggan, Zuk, Marlene, and Shaw, Allison. **2021**. Parasite intensity and the evolution of migratory behavior. *Ecology*, e03229–e03229.

PRESENTATIONS

Balstad, Laurinne and Szuwalski, Cody. Size and density-dependent incidence of BCD suggests cod predation more important than fishery for disease control. Alaska Marine Science Symposium, **Jan 2022**

Balstad, Laurinne and Clifton, Sara. Modeling racial bias and homophily in professional hierarchies. SIAM Dynamical Systems, **May 2022**

Balstad, Laurinne, Folmar, Jackie, Sallee, Abby, Santan-Souza, Lucas, Swenson, Michelle, and Eda, Shigetoshi. Privatization of goods in biofilms allows for successful cooperation. NIMBioS Undergraduate Research Conference, **Oct 2021**

Balstad, Laurinne, Binning, Sandra, Craft, Meggan, Zuk, Marlene, and Shaw, Allison. Poster: Parasite intensity influences evolution of migratory behavior via migratory escape. Society of Mathematical Biology Annual Meeting, **Aug 2021**

GRANTS & FUNDING

- 2021-Present** Graduate Research Fellowship
National Science Foundation, \$144,000
- 2021-Present** Graduate Research Traineeship
National Science Foundation, Sustainable Oceans NRT \$34,000
- 2022** CBSM Conference Student Travel Award
- 2021-2022** Dean's Distinguished Graduate Fellowship
University of California, \$27,000

WORKSHOPS

May 2022 CBMS Conference: Interface of Mathematical Biology and Linear Algebra
Applications of linear algebra to epidemiology and disease systems

RESEARCH & LAB POSITIONS

2022-Present Intern, Dr. Cody Szuwalski, NOAA AFSC. *Statistical modeling of bitter crab disease in Eastern Bering Sea.*

2019, 2020 Research Assistant, Dr. Allison Shaw Laboratory, University of Minnesota, Twin Cities. *Population modeling.*

2020 Student Researcher, Mathematical Modeling, NIMBioS Summer Research Experience Program. *Agent-based modeling.*

TEACHING

2018 Supplemental Instruction Leader, General Chemistry
St. Olaf College
Worked closely with faculty to provide structured study sessions for first-year students

OUTREACH & SERVICE

2022-Present UC Davis Ecology & Evolution Preview Program
Co-treasurer, Mentorship co-coordinator, Presenter
Program encourages students from underrepresented backgrounds to consider and apply to graduate school by making application process transparent

2021-Present Population Biology Student Diversity Committee Member
University of California Davis

2019-2021 St. Olaf Association for Women in Mathematics
Founding member