

# LAURINNE BALSTAD

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## EDUCATION

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- 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

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

## PRESENTATIONS

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**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

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- 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

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

## RESEARCH & LAB POSITIONS

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**2021-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

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

## OUTREACH & SERVICE

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**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*