

# Lauren Wynkoop Ashlock

University of Vermont, 109 Carrigan Drive, Burlington, Vermont 05405  
(707) 484-2957 | lwashlock@gmail.com

## EDUCATION

---

**Ph.D. Candidate, Biology**, University of Vermont, 2016-present, Advisor: Melissa Pespeni  
Title: “Integrating experimental and environmental data to understand and model patterns of thermal tolerance and resilience in copepods.”  
Committee: Stephen Keller (chair), Hans Dam, Jason Stockwell  
**Bachelor of Science, Marine Biology**, University of California, Santa Cruz, 2012

## FELLOWSHIPS & HONORS

---

**NSF Research Trainee**, Quantitative & Evolutionary STEM Traineeship (QuEST), 2018  
**NSF-GRFP Honorable Mention**, National Science Foundation, 2016  
**Deans Honors**, University of California, Santa Cruz, Fall 2012  
**Deans Honors**, Santa Rosa Junior College, Spring 2009  
**Deans Highest Honors**, Santa Rosa Junior College, Fall 2007, Spring 2008  
**Doyle Scholarship**, Santa Rosa Junior College, 2007-2008

## RESEARCH AWARDS

---

**BioFabLab Graduate Project Award** (\$1000), University of Vermont, 2017  
**John Wheeler Graduate Student Research Award** (\$1500), University of Vermont, 2017

## RESEARCH EXPERIENCE

---

**NSF-Funded QuEST Graduate Student Intern:** Farallon Institute, Summer 2019

- Investigated the relationship between copepods and sea surface temperature in the Northeast Pacific

**Junior Specialist:** University of California, Davis, Bodega Marine Laboratory, 2014-2016

- Conducted research on how to best culture federal ESA listed species, white abalone
- Collaborated with partner institutions, facilitating white abalone conservation

**Scientific Aide:** California Department of Fish and Wildlife, 2014-2016

- Conducted research regarding health of wild and captive shellfish populations
- Communicated and worked with aquaculture staff and community members

**Volunteer Research Assistant:** Bodega Marine Laboratory, 2013

- Monitored the recovery of benthic marine invertebrate populations along the California coast following a mass mortality event
- Examined the role of mussel beds in mitigating the desiccation of intertidal invertebrates

**Student Researcher:** STARESO Research Station, Corsica, France, 2012

- Investigated extent of niche overlap between native and invasive labrid fishes

## TEACHING EXPERIENCE

---

**Teaching Assistant:** University of Vermont

- Genetics (Spring 2017, Spring 2018)
- Introduction to Cellular and Molecular Biology (Fall 2016, Fall 2017)
- Accelerated Biology (Fall 2019)
- Ecological Genomics (Spring 2020, Fall 2021)
- Principles of Biology (Spring 2022)

**Instructor:** University of Vermont

- Graduate Student Wellness (Fall 2020)

## MENTORSHIP

---

### Direct Mentorship of Independent Research

Emily Kaloudis, Undergraduate Student, University of Vermont, 2021-present

*“Characterizing the thermal environment of copepod, *Acartia tonsa*”*

Emily Shore, Masters Student, University of Vermont, 2018-2020

*“Implications of microplastics consumption on the physiology of *Acartia tonsa*”*

Chelsea Darwin, Undergraduate Student, University of Vermont, 2018-2020

*“Transgenerational impacts of warming on thermal tolerance of *Acartia tonsa*”*

Jessica Crooker, Undergraduate Student, University of Vermont, 2019-2020

*“Life history stage specific salinity tolerance of *Acartia tonsa*”*

### Undergraduate Assistants

Anyia Steinhart, University of Vermont, 2019-2021

Hannah Edmonds, University of Vermont, 2018

Erika Petterson, University of Vermont, 2017-2019

Maria Cayia, University of Vermont, 2017-2018

Franklin Dean Keck, Santa Rosa Junior College, 2016

## PUBLICATIONS

---

Jurgens LJ, **Ashlock LW**, Gaylord B. Facilitation alters climate change risk on rocky shores. Ecology. e03596.

**Ashlock L**, García-Reyes M, Gentemann C, Batten S, Sydeman W. Temperature and Patterns of Occurrence and Abundance of Key Copepod Taxa in the Northeast Pacific. Frontiers in Marine Science. 2021:1271.

Vater, A, Byrne, B, Marshman, B, **Ashlock, L**, Moore, J. 2018. Differing responses of red abalone (*Haliotis rufescens*) and white abalone (*H. sorenseni*) to infection with phage-associated *Candidatus Xenohaliotis californiensis*. PeerJ. 6, e5104.

Rogers-Bennett, L, Aquilino, K, Catton, C, Kawana, S, Walker, B, **Ashlock, L**, Marshman, B, Moore, J, Taniguchi, I, Gilardi, K, Cherr, G. 2016. Implementing a restoration program for the endangered white abalone (*Haliotis sorenseni*) in California. Journal of Shellfish Research, 35, 611-618.

## PRESENTATIONS

---

*\* Please note - Last name changed from Wynkoop to Ashlock in 2015 \**

**Ashlock, L.** Darwin, C, Crooker, J, deMayo, J, Dam, H, Pespeni, M. 2021. Importance of Plasticity in the Copepod Climate Response. Contributed talk, Western Society of Naturalists Annual Meeting.

**Ashlock, L.** Darwin, C, Crooker, J, Pespeni, M. 2021. Plasticity and Adaptation in the Copepod Climate Response. Contributed talk, Evolution Annual Meeting.

**Ashlock, L.** Aristizabal, N, Verrico, B, Boudreau, M. 2021. QuEST Interest Group Network Supports Mental Health in STEM Graduate Education. Contributed poster, NSF Research Traineeship Annual Meeting.

**Ashlock, L.** Pespeni, M. 2019. Differential thermal tolerance across latitude and developmental stages in the estuarine copepod, *Acartia tonsa*. Contributed poster, The Society for Integrative & Comparative Biology Annual Meeting, Tampa, FL

**Wynkoop, L.** Aquilino, K, Rogers-Bennett, L, Neuman, M, Cherr, G, Moore, J. 2014. Advancing towards successful white abalone recovery. Contributed talk, Western Society of Naturalists Annual Meeting, Tacoma, WA.

**Wynkoop, L.** Jurgens, L, Gaylord, B. 2013. Impact of mussel bed structure on desiccation of two intertidal invertebrates. Contributed poster, Western Society of Naturalists Annual Meeting, Oxnard, CA.

**Wynkoop, L.** Shannonhouse-Wilde, D, Berryman, G, Rodriguez, K. 2013. Mediterranean invasions: a comparison of resource use between two ecologically similar wrasses. Contributed poster, Western Society of Naturalists Annual Meeting, Oxnard, CA.

## OUTREACH & SERVICE

---

### Graduate Student Wellness

- Co-founder of blog, The Mindful Scientists, [themindfulscientists.com](http://themindfulscientists.com), 2021-present
- Co-founder of QuEST Mental Health Interest Group, 2019-present
  - UVM graduate student group dedicated to reducing mental health stigma, building community, and increasing accessibility to wellness resources
- Instructor of course on graduate student wellness, 2020

### Lab Safety Officer

- Developed Standard Operating Procedures for using and disposing of hazardous chemicals, 2019-present
- Created Standard Operating Procedures for Covid-19 safety for lab personnel, 2019-present
- Managed experimental safety and oversaw lab safety audits, 2019-present

### K-12 Science Education

- Hosted students in molecular and wet lab. Led lessons on marine invertebrate biodiversity, microscopy, copepod identification, and molecular methods.
  - Schoolhouse Learning Center, South Burlington, VT, 2017
  - Vermont Commons, South Burlington, VT, 2017

- Developed and led interactive in-classroom lessons on ecology and conservation
  - Saint Albans Town Educational Center, Saint Albans, VT, 2017
  - Korematsu Discovery Academy, Oakland, CA, 2013-2016
  - Wilson Elementary, Petaluma, CA, 2013

## RELEVANT COURSEWORK & WORKSHOPS

---

- |  |  |
|--|--|
| • Marine Ecology                             | • Computational Biology  |
| • Marine Geology                             | • Ecological Genomics  |
| • Freshwater Ecology                         | • Introduction to Statistical Learning                             |
| • Biological Oceanography                    | • Improvisation for Science Communication                          |
| • Ichthyology                                | • Communication and Leadership Skills in a Hot and Dangerous World |
| • Invertebrate Zoology                       | • Mental Health First Aid  |
| • Marine Botany                              | • Step Up to Bias 101  |
| • Population Genetics                        | • Environmental Policy, Prob Solving & Leadership                  |
| • Evolution                                  | • Optimizing Inclusive & Culturally Responsive Mentoring Practices |
| • Molecular Adaptation                       |  |
| • Quantitative Thinking in the Life Sciences |  |

## REFERENCES

---

### **Dr. Melissa Pespeni**

Associate Professor, University of Vermont  
mpespeni@uvm.edu

### **Dr. Marisol García-Reyes**

Principal Scientist, Farallon Institute  
marisolgr@faralloninstitute.org

### **Dr. Kristin Aquilino**

Lead Scientist, University of California, Davis, Bodega Marine Lab  
kmaquilino@ucdavis.edu