

HILARY A. HAYFORD

DEPARTMENT OF BIOLOGY & FRIDAY HARBOR LABS, UNIVERSITY OF WASHINGTON
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EDUCATION

PhD, *Biology*, University of Washington, Seattle, 2016
BSc, *Marine Biology*, University of California, Santa Cruz, 2001
AS, AA, *Biology, Spanish*, Cabrillo College, Aptos, CA, 1998

RESEARCH

EXPERIENCE – 17 YEARS RESEARCH, COLLABORATION ON 40+ PROJECTS

POSTDOCTORAL RESEARCH ASSOCIATE, University of Washington 2016 - present
Ecophysiology, thermal biology, climate change, aquaculture, ocean acidification.

GRADUATE STUDENT RESEARCHER

- University of Washington: Thermoregulation, tidal cycles, predation, performance 2009 - 2016
- Moss Landing Marine Labs/San Jose State: Molecular ecology & invertebrate zoology 2005 - 2009
- Universidad Católico del Norte, Coquimbo, Chile: Kelp forest community ecology Oct 2006

RESEARCH SPECIALIST, University of California, Santa Cruz 1999 - 2009
Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO). Lab Manager 2001-2005.
Experimental ecology, environmental monitoring, marine protected areas (MPAs); 700+ days in field.

PUBLICATIONS

H.A. Hayford, M. J. O'Donnell, E. Carrington (*In review*) Radio tracking detects thermoregulation at a snail's pace. Target: *Journal of Experimental Marine Biology and Ecology*

W.B. Stickle, E. Carrington, **H. Hayford** (2017) Seasonal changes in the thermal regime and gastropod tolerance to temperature and desiccation stress in the rocky intertidal zone at the southern end of the inside passage. *Journal of Experimental Marine Biology and Ecology*, 488:83-91

S.E. Gilman, **H. Hayford**, C. Craig, E. Carrington (2015) Body temperatures of an intertidal barnacle and two whelk predators in relation to shore height, solar aspect, and microhabitat. *Marine Ecology Progress Series*, 536:77-88

H.A. Hayford, S.E. Gilman, E. Carrington (2015) Foraging behavior minimizes heat exposure in a complex thermal landscape. *Marine Ecology Progress Series*, 518:165-175

PRESENTED PAPERS (*Presenting author)

*Society for Integrative & Comparative Biology	New Orleans, LA	2017
*Society for Integrative & Comparative Biology	West Palm Beach, FL	2015
*Biology Graduate Student Symposium	Seattle, WA	2015
*Western Society of Naturalists	Tacoma, WA	2014
*Graduate Climate Conference	Eatonville, WA	2014
*Society for Integrative & Comparative Biology	Austin, TX	2014

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World Congress of Malacology	Ponta Delgado, Portugal	2013
*Western Society of Naturalists	Monterey, CA	2012
U.S. Regional Assoc. of Int'l Assoc. for Landscape Ecology	Newport, RI	2012
*Western Society of Naturalists	Vancouver, WA	2011
*Biology Graduate Student Symposium	Seattle, WA	2011
Monterey Bay National Marine Sanctuary Symposium	Monterey, CA	2007

INVITED RESEARCH TALKS

Biology Department Seminar	Western Washington University	2016
Marine Ecology Journal Club Seminar	University of California, Irvine	2015
Friday Harbor Labs Seminar	University of Washington	2014
Advancement Board Annual Dinner	Friday Harbor Labs	2013
Friday Harbor Labs Seminar	University of Washington	2012
Docent Meeting	Natural Bridges State Park (CA)	2008

GRANTS & AWARDS (\$76,495)

Friday Harbor Labs Fellowships, University of Washington	\$7,500	2011, 2012, 2014
Edmondson Award, Dept. of Biology, University of Washington	\$1,500	2012
Pacific Northwest Shell Club Scholarship	\$750	2011
Achievement Rewards for College Scientists (ARCS)	\$17,500	2009-2012
Top Scholar, Dept. of Biology, University of Washington	\$11,400	2009
David & Lucille Packard Research & Travel Grant	\$1,000	2009
Moss Landing Marine Labs Fellowships	\$4,000	2008, 2009
San Jose State University Fellowships	\$1,425	2007 - 2009
Dr. Earl & Ethel Myers Oceanographic & Marine Biology Grant	\$1,000	2006
Regents Scholar, University of California, Santa Cruz	\$30,000	1998 - 2000
McHenry Scholar, University of California, Santa Cruz	\$420	1999

RESEARCH MENTOR (6 students, University of Washington)

1. Maia Kreis (2014) "Measuring thermal performance of *Nucella ostrina*"; (2012) "Vertical migration patterns of two marine snails: *Nucella lamellosa* & *Nucella ostrina*"
2. Kat Barton (2013) "Effect of heat stress & starvation on snail behavior and recovery rate"
3. & 4. Erik Nash & Dan O'Connor (2013) "Effect of heat stress & starvation on the respiration rate of *Nucella ostrina*"
5. Kathleen Conery (2012) "Migration & feeding in intertidal whelks, *Nucella ostrina* & *N. lamellosa*"
6. Lauren Colpo (2010-2011) "Metabolic response of *Nucella ostrina* & *Nucella lamellosa* to increased temperatures in aerial environments"

TEACHING

EXPERIENCE - 23 COURSES, > 1000 STUDENTS

INSTRUCTOR OF RECORD

Marine Ecological Processes	University of Washington	Win 2017
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TEACHING ASSISTANT

Introductory Cell & Molecular Biology	University of Washington	2016
Mycology	University of Washington	2015
Invertebrate Zoology	University of Washington	2015
Marine Ecology	University of Washington	2015

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Cell & Molecular Lab Techniques x 3	University of Washington	2013 - 2015
Limnology & Limnology Lab x 4	University of Washington	2011 - 2014
Invertebrate Zoology & Research Apprenticeship x 2	Friday Harbor Labs/UW	2013 - 2014
Marine Algae & Research Apprenticeship x 3	Friday Harbor Labs/UW	2010 - 2012
Foundations in Physiology	University of Washington	2012
Foundations in Ecology	University of Washington	2011
Introductory Ecology & Evolution	University of Washington	2010
Field trip leader, Intro Bio to Friday Harbor Labs	University of Washington	2010 - 2011
Invertebrate Zoology	San Jose State University	2008
Teacher Enhancement Program: Lab & Field	San Jose State University	2007
Teacher Enhancement Program: Biotechnology	San Jose State University	2006

RECOGNITION

Ingrith Deyrup Distinguished Teaching Award, U. of Washington	\$750	2015
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GUEST LECTURES

Burke Museum Girls in Science	University of Washington	2016
Cell & Molecular Lab Techniques class	University of Washington	2014
Invertebrate Zoology class	Seattle University	2013
Marine Botany class, Friday Harbor Labs	University of Washington	2012
Marine Ecological Processes class	University of Washington	2012
Marine Ecology class	University of California, Santa Cruz	2008
7 th grade science class	All Saints' Day School (CA)	2008

SERVICE & COMMUNITY

REVIEWER FOR

Comparative Biochemistry & Physiology, Ecography, Ecological Monographs, Invertebrate Biology, Journal of Coastal Research, Marine Ecology, Marine Ecology Progress Series

PROFESSIONAL SERVICE

Friday Harbor Labs Advisory Board	University of Washington	2013 - 2014
Undergraduate Curriculum Committee, Biology Dept.	University of Washington	2013 - 2014
Graduate Coordinating Committee, Biology Dept.	University of Washington	2012 - 2013
Graduate Program Committee, Biology Dept.	University of Washington	2010 - 2012
Biology Graduate Student Symposium Coordinator	University of Washington	2011
Dean's Student Advisory Board, College of Science	San Jose State University	2007 - 2009

FEATURES & POPULAR ARTICLES

"Avoiding high temperatures at a snail's pace." Feature article; Friday Harbor Labs Tide Bites newsletter & San Juan Islander, May 2016, <http://tinyurl.com/j4vg8mp>

"The best of both worlds: A clever intertidal snail feeds on land and cools off in the sea." Feature article; Pacific Northwest Shell Club newsletter, Oct 2014, <http://tinyurl.com/nwt7smh>

"A snail can tell us a lot about global warming." Radio feature; Crosscut Radio, Apr 2012
<http://tinyurl.com/pqtlgmj>

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COMMUNITY OUTREACH

Volunteer docent, Seattle Aquarium, Seattle, WA	2016 - present
Visiting scientist, What Is A Scientist? SICB Outreach Program, New Orleans, LA	2017
Science Positive blog contributor, Biology Dept., U. of Washington, Seattle, WA	2015
Seattle Nerd Night public lecturer, Seattle, WA	2015
Volunteer naturalist, Lime Kiln Point State Park, Friday Harbor, WA	2013 – 2014
Visiting field biologist, Spring Street Summer Institute, Friday Harbor, WA	2013 – 2014
Visiting scientist, Friday Harbor Elementary School, Friday Harbor, WA	2010 – 2014
Volunteer writing mentor, Dream Project, U. of Washington, Seattle, WA	2010
Judge, Undergraduate Research Symposium, U. of Washington, Seattle, WA	2010
Volunteer mentor, Student Oceanography Club, Monterey Bay Aquarium, CA	2007 – 2009
Science fair judge, secondary schools, CA	2006 – 2009
Fundraiser volunteer, Moss Landing Marine Labs, Moss Landing, CA	2005 – 2009
Fundraiser volunteer, Long Marine Lab, Santa Cruz, CA	2003, 2008, 2009
Career panelist, junior & senior high schools, Santa Cruz County,	2007, 2008
Volunteer mentor, Young Women in Science, Monterey Bay Aquarium, CA	2007
Volunteer, Shark Festival & Sanctuary Celebration, Santa Cruz, CA	2002
Co-leader, Ocean Explorers summer camp, Long Marine Lab, Santa Cruz, CA	1999 – 2000
Volunteer docent, school programs, Long Marine Lab, Santa Cruz, CA	1996 – 2000

PROFESSIONAL AFFILIATIONS

Ecological Society of America (ESA)
Society for Integrative and Comparative Biology (SICB)
Western Society of Naturalists (WSN)

COMMUNITY AFFILIATIONS

American Civil Liberties Union (ACLU)
National Association for the Advancement of People of Color (NAACP)

REFERENCES

Emily Carrington, University of Washington, Department of Biology
UW Biology, Box 351800, Seattle, WA 98195-1800
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Jennifer Ruesink, University of Washington, Department of Biology
UW Biology, Box 351800, Seattle, WA 98195-1800
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Megan Dethier, University of Washington, Friday Harbor Laboratories
620 University Rd., Friday Harbor, WA 98250
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Peter Raimondi, University of California, Santa Cruz, Department of Ecology & Evolution
Center for Ocean Health, Long Marine Lab, University of California, Santa Cruz, CA 95060
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