

EMILY W. GRASON, PH.D.

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Washington Sea Grant
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ACADEMIC PREPARATION

- 2016 **Ph.D. Biology** Advisor: Jennifer L. Ruesink
University of Washington, Seattle, WA
Title: *Mollusca Non-Grata*: The influence of top-down control and residence time on the abundance, distribution, and behavior of non-native marine snails in Washington State
- 2010 **M.S. Biology** Advisor: Benjamin G. Miner
Western Washington University, Bellingham, WA
Title: *Alien vs. Predator*: Effects of a native predator on two invasive oyster drills and oysters in Washington State.
- 2004 **B.A. Biology, Cum Laude**
Bowdoin College, Brunswick, ME
Advisor: Amy Johnson; Thesis Advisor: Marney C. Pratt

AREAS OF EXPERTISE

- Invasion biology
- Marine ecology
- Predator-prey interactions
- Inducible defenses
- Conservation biology
- Science communication

SELECTED PROFESSIONAL EXPERIENCE

- 2014 – present **Washington Sea Grant** Marine Ecologist, Program Manager
Community science early-detection and monitoring of invasive European green crab. Design, launch, and maintain regional volunteer monitoring program: >200 volunteers at 56 sites, managing and analyzing longitudinal data. Planning and implementing rapid assessment surveys, coordinating multi-agency resources. Supporting development of transboundary management planning. Project communications including social media and interacting with press.
- 2015 – 2017 **JRS Biodiversity Foundation** Biodiversity Science Intern
Translate proposals and research of foundation grantees into foundation communications materials. Social media and web content management.
- 2011 **The Nature Conservancy** Experimental Design Intern
Design experimental fishing plan testing the efficacy of bycatch reduction strategy

PUBLICATIONS

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- 2019 Brasseale, E, **EW Grason**, PS McDonald, J Adams, P MacCready. Larval transport modeling support for identifying population sources of European green crab in the Salish Sea. *Estuaries and Coasts*. 42: 1586 – 1599.
- 2018 **Grason, EW**, PS McDonald, JL Ruesink. Comparing residence time and natural enemies between low- and high-density invasions. *Biological Invasions*. 20 (11): 3315-3330.
- 2018 **Grason, EW**, PS McDonald, J Adams, K Litle, JK Apple, A Pleus. Citizen science program detects range expansion of the globally invasive European green crab in Washington State (USA). *Management of Biological Invasions*. 9 (1): 39-47.
- 2017 **Grason, EW**. Does co-history constrain information use? Evidence for generalized risk assessment in non-native prey. *The American Naturalist*. 189 (3): 213 – 226.
- 2016 **Grason, EW** and ER Buhle. Comparing the influence of native and invasive intraguild predators on a rare native oyster. *Journal of Experimental Marine Biology and Ecology*. 479:1–8.
- 2015 Rohwer, S, **EW Grason**, AG Navarro-Sigüenza. Irrigational and avifaunal change in coastal Northwest Mexico: has irrigated habitat attracted threatened migratory species? *PeerJ* 3:e1187.
- 2012 **Grason, EW** and BG Miner. Preference alters consumptive effects of predators: Top-down effects of a native crab on a system of native and introduced prey. *PLoS ONE*. 7(12).
- 2012 **Grason, EW** and BG Miner. Behavioral plasticity in an invaded system: non-native whelks recognize risk from native crabs. *Oecologia*. 169: 105-115.
- 2007 Pratt, MC and **EW Grason**. Invasive species as a new food source: does a native nudibranch prefer eating an invasive bryozoan? *Biological Invasions*. 9:645-655.

RESEARCH FUNDS

2014	University of Washington Biology Graduate Committee, Edmondson Award	\$594
2011-2013	NOAA National Estuarine Research Reserve System Graduate Research Fellowship (Annually)	\$20,000
2013	National Shellfisheries Association, Melborne R. Carriker Student Research Grant	\$1,250
2012	Conchologists of America, Grants to Malacology	\$1,500
2012	Pacific Northwest Shell Club, Trevor Roberts Memorial Scholarship	\$700
2012	UW, Biology Graduate Committee Edmondson Award & Wingfield-Ramenofsky Award	\$2,100
2011	UW, Biology Graduate Committee, Edmondson Award	\$2,400
2009	Western Washington University, Biology Graduate Committee	\$650
2009	Pacific Northwest Shell Club	\$700
2009	WWU, Biology Chair Matching	\$500
2009	WWU, Office of Research and Sponsored Programs	\$650

INVITED AND CONTRIBUTED ACADEMIC PRESENTATIONS

- 2015 **Pacific Estuarine Research Society (poster)**, Seattle, WA
 **Best Graduate Student Poster
 Of Needles and Haystacks: Habitat mapping and citizen science to monitor for European Green Crab in Washington State.
- 2014 **Western Society of Naturalists**, Tacoma, WA. A Healthy Fear of the Unknown: Evidence for generalized risk assessment strategies in non-native marine snails.
- 2014 **Ecological Society of America**, Sacramento, CA. Strangers in a Strange Land: Evidence for generalized risk assessment strategies in non-native marine snails.
- 2014 **North American Congress of Conservation Biology**, Missoula, MT
 The Devil You Know: The effects of native and non-native predators on restoration in an intertidal interaction web
- 2014 **Salish Sea Ecosystem Conference**, Seattle, WA
 ** Best Oral Presentation by Graduate Student
 Drill Baby Drill: Invasive oyster drills are the main driver of oyster mortality at a restoration site
- 2012 **Western Society of Naturalists**, Monterey, CA
 Stranger Danger: Cue specific risk assessment and behavioral plasticity in invasive oyster drills.
- 2012 - 2014 **Guest Lecturer: Topics in Marine Science**
 ESCI 204 **Western Washington University**
 Marine Bioinvasions
- 2012 **Padilla Bay Research Symposium**, Bay View, WA
 Do parasites control invasive snails in Padilla Bay?
- 2011 **Western Society of Naturalists**, Vancouver, WA
 The influence of parasites on abundance and distribution of *Batillaria attramentaria* in Padilla Bay, WA
- 2010 **Canadian Society of Zoologists (Invited)**, Vancouver, BC.
 Student Symposium on Plasticity: Inducible defenses in an invaded marine food chain: why cue specificity matters
- 2010 **Society for Integrative and Comparative Biology**, Seattle, WA.
 **Best Student Presentation Award, The Crustacean Society

ACADEMIC AWARDS AND HONORS

- 2015 Best Graduate Student poster, Pacific Estuarine Research Society Meeting
- 2014 Best Oral Presentation by Graduate Student, Salish Sea Ecosystem Conference (\$125)
- 2010 Top Scholar Award, University of Washington Graduate School

- 2010 Graduate Research Award, WWU Biology Department (\$250)
- 2010 Best Student Presentation, SICB, The Crustacean Society (\$100)
- 2004 Honors in Biology, Bowdoin College
- 2001 Sarah and James Bowdoin Scholar, Bowdoin College

ASSISTANTSHIP EXPERIENCE

- 2014 Research Assistant, UW
Oyster Growth Ocean Acidification Bioassay (PI: J. Ruesink)
- 2010-2014 Teaching Assistant, UW
Course Labs: Conservation Biology (476), Animal and Plant Physiology (220), Cell, Molecular and Developmental Biology (200), Marine Biology (250)
- 2009-2010 Graduate Assistant, Shannon Point Marine Center, WWU
- 2008-2009 Teaching Assistant, WWU
Course Labs: Introductory Biology (101), Organismal Biology (206)

PROFESSIONAL SERVICE AND OUTREACH

- Reviewed for: American Naturalist, Biological Invasions, Marine Ecology Progress Series, Northwest Science, Oecologia, Estuarine and Coastal Shelf Science, Hydrobiologia
- Science Communication Workshop Co-Leader: UW Center for Sensorimotor Neural Engineering Summer Student Program. Upgoer 5 Challenge. (2014)
- UW Biology department:
 - Organizing committee: Graduate Student Seminar (2011)
 - SciPos (Department blog) Administrator (2015 – 2016)