



CAL POLY HUMBOLDT DEPARTMENT OF BIOLOGICAL SCIENCES • CAL POLY HUMBOLDT MARINE LABORATORY



1 Harpst Street, Arcata, CA 95520 • 570 Ewing Street, Trinidad, CA 95570 (707.826.3600) ✉ peb112@humboldt.edu 🌐 <https://bourdeaulab.weebly.com/>

PAUL E. BOURDEAU

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ACADEMIC PREPARATION

2001-2009 Ph.D., Ecology and Evolution, Stony Brook University
1997-1999 M.S., Marine Biology, University of Massachusetts, Dartmouth
1994-1997 B.S., Biology, University of Massachusetts, Dartmouth (*summa cum laude*)

POSITIONS HELD

2021-present Graduate Program Coordinator, Department of Biological Sciences, California State Polytechnic University, Humboldt
2020-present Associate Professor, California State Polytechnic University, Humboldt
2014-2020 Assistant Professor, Humboldt State University
2014 Lecturer, Michigan State University
2009-2014 Postdoctoral Research Associate, Michigan State University
2007-2008 Lecturer, Stony Brook University
2002-2005 Research Assistant, Stony Brook University
2001 Research Associate, Woods Hole Oceanographic Institute
1997 Research Assistant, University of Massachusetts, Dartmouth

PUBLICATIONS (* denotes student co-author)

32. Hollander J, Hu* N, Bourdeau PE (in revision). Responses of Marine Trophic Levels to the Combined Effects of Ocean Acidification and Warming
31. Hull WW, Bourdeau, PE (2023). Additive multiple predator effects increase prey mortality under experimental warming in a rocky intertidal food web. *Journal of Experimental Marine Biology and Ecology*, 569, 151948.
30. Bourdeau PE, Pothoven SA, Peacor SD (2023). Cannibalism by the invasive invertebrate zooplanktivore *Bythotrephes cederstroemii* Schödler, 1863 (Cladocera: Cercopagidae). *Hydrobiologia* 1-13.
29. Hu* N, Brönmark C, Bourdeau PE, Hollander J (2022) Marine gastropods at higher trophic levels show stronger tolerance to ocean acidification. *Oikos* (9) e08890.
28. Charifson* DM, Bourdeau PE, Padilla DK (2022) Shell remodeling in response to increased risk of predation in a marine snail. *Marine Ecology Progress Series* 688:57-67.
27. Hu* N, Bourdeau PE, Harlos* C, Hollander J (2022) Meta-analysis reveals variance in tolerance to climate change across marine trophic levels. *Science of the Total Environment* 827:154244.
26. Fieber* AM, Bourdeau PE (2021) Elevated $p\text{CO}_2$ reinforces preference among intertidal algae in both a specialist and generalist herbivore. *Marine Pollution Bulletin* 168:112377.
25. Murie* KA, Bourdeau PE (2021) Energetic context determines the effects of multiple upwelling-associated stressors on sea urchin performance. *Scientific Reports* 11:1-12.



24. McIntire* LC, Kotas* T, Flagor* TE, Bourdeau PE (2021) Weak directional selection on inducible defensive shell traits in a marine gastropod by the inducing shell-breaking predator. *Marine Biology* 168:1-12.
23. McIntire* LC, Bourdeau PE (2020) World's largest chiton (*Cryptochiton stelleri*) is an inefficient thermoregulator. *Marine Ecology Progress Series* 652:63-76.
22. Murie* KA, Bourdeau PE (2020) Fragmented kelp forest canopies retain their ability to alter local seawater chemistry. *Scientific Reports* 10:1-13.
21. Murie* KA, Bourdeau PE (2019) Predator identity dominates non-consumptive effects in a disease impacted rocky shore food web. *Oecologia* 191:945-956.
20. Bourdeau PE, Padilla DK (2019) Cue specificity of predator-induced phenotype in a marine snail: is a crab just a crab? *Marine Biology* 166:84.
19. Flagor* TE, Bourdeau PE (2018) First record of the predatory snail *Acanthinucella spirata* (Blainville, 1832) north of its known range. *Marine Biodiversity Records* 11:19.
18. Hull* WW, Bourdeau PE (2017) Can crabs compensate for the loss of a keystone predator? A field test of the effects of crab predation on the vertical distribution of mussels on an exposed rocky shore. *PLoS One* 12: e0183064.
17. Hollander J, Bourdeau PE (2016) Evidence of weaker phenotypic plasticity by prey to novel cues from non-native predators. *Ecology and Evolution* 6:5358-5365.
16. Bourdeau PE, Bach* MT, Peacor SD (2016) Predator presence dramatically reduces copepod abundance through condition-mediated non-consumptive effects. *Freshwater Biology* 61:1020-1031.
15. Bourdeau PE, Pangle KL, Peacor SD (2015) Factors affecting the vertical distribution of the zooplankton assemblage in Lake Michigan: The role of the invasive predator *Bythotrephes longimanus*. *Journal of Great Lakes Research* 41:115-124.
14. Bourdeau PE, Butlin RK, Brönmark C, Edgell TC, Hoverman JT, Hollander J (2015) What can aquatic gastropods tell us about phenotypic plasticity? A review and meta-analysis. *Heredity* 115:312-321.
13. Miehl ALJ, McAdam AG, Bourdeau PE, Peacor SD (2013) Plastic response to a proxy cue of predation risk when direct cues are unreliable. *Ecology* 94:2237-2248.
12. Bourdeau PE, Pangle KL, Reed* EM, Peacor SD (2013) Finely-tuned response of native prey to an invasive predator in a pelagic freshwater system. *Ecology* 97:1449-1455.
11. Bourdeau PE (2013) Morphological defense influences absolute, not relative, non-consumptive effects in marine snails. *Behavioral Ecology* 24:505-510.
10. Bourdeau PE, Johansson F (2012) Predator-induced morphological defences as by-products of prey behaviour: A review and prospectus. *Oikos* 121:1175-1190.
9. Bourdeau PE (2012) Intraspecific trait cospecialization of constitutive and inducible morphological defenses in a marine snail from habitats with different predation risk. *Journal of Animal Ecology* 81:849-858.
8. Mach ME, Bourdeau PE (2011) To flee or not to flee? Risk assessment by a marine snail in multiple cue environments. *Journal of Experimental Marine Biology and Ecology* 409:166-171.
7. Bourdeau PE, Pangle KL, Peacor SD (2011) The invasive predator *Bythotrephes* induces changes in the vertical distribution of native copepods in Lake Michigan. *Biological Invasions* 13:2533-2545.
6. Bourdeau PE (2011) Constitutive and inducible defensive traits in co-occurring marine snails distributed across a vertical rocky intertidal gradient. *Functional Ecology* 25:177-185.
5. Bourdeau PE (2010) Cue reliability, risk sensitivity and inducible morphological defense in a marine snail. *Oecologia* 162:987-994.
4. Bourdeau PE (2010) An inducible morphological defence is a passive by-product of behaviour in a marine snail. *Proceedings of the Royal Society London B* 277:455-462 (Recommended by Faculty of 1000 Biology; Proc R Soc B highlighted article).



3. Bourdeau PE (2009) Prioritized phenotypic responses to combined predators in a marine snail. *Ecology* 90:1659-1669.
2. Przeslawski R, Bourdeau PE, Doall MH, Pan J, Perino L, Padilla DK (2008) The effects of a harmful alga on bivalve larval lipid stores. *Harmful Algae* 7:802-807.
1. Bourdeau PE, O'Connor NJ (2003) Predation by the non-indigenous Asian shore crab *Hemigrapsus sanguineus* on macroalgae and molluscs. *Northeastern Naturalist* 10:319-334 (cover article).

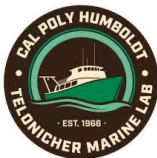
GRANTS, AWARDS, AND FELLOWSHIPS

- 2023 University of California Office of the President: Improving climate change resilience by increasing capacity for Northern California Tribal fisheries (\$1,112,908)
- 2021 NOAA Ocean Acidification Program: Effects of $p\text{CO}_2$, temperature, and deoxygenation stressors on juvenile and adult *Euphausia pacifica*: experimental assessment, enhancement of individual-based models, and connection to observational time series (\$409,956).
- 2021 Howard L. McKee Ecology Residency, Sitka Center for Art and Ecology
- 2020 Visiting Scholar, Helen Riaboff Whiteley Center, Friday Harbor Laboratories
- 2019 NSF MRI: Acquisition of a Micro Photonics SkyScan 1273 High-Energy Micro-CT Scanner for Research and Training in the HSU College of Natural Resources & Sciences (\$491,223)
- 2018 Humboldt State University Research Scholarly and Creative Activities Research Grant (\$3,979).
- 2018 Humboldt State University College of Natural Resources and Sciences Travel Award (\$500).
- 2018 Humboldt State University Agricultural Research Institute Grant (\$57,090).
- 2018 CSU-COAST Grant Development Funds (\$15,683).
- 2016 CSU-COAST Grant Development Funds (\$15,000).
- 2016 Humboldt State University Emeritus and Retired Faculty Award (\$1,000).
- 2016 Humboldt State University Sponsored Programs Foundation Incentives Program Grant (\$4,844).
- 2015 Humboldt State University College of Natural Resources and Sciences Travel Award (\$1,300).
- 2015 Humboldt State University Research Scholarly and Creative Activities Research Grant (\$3,035).
- 2007 Stephen and Ruth Wainwright Fellowship, Friday Harbor Laboratories (\$1,500).
- 2006 Student Research Grant, American Malacological Society (\$500).
- 2006 Stephen and Ruth Wainwright Fellowship, Friday Harbor Laboratories (\$2,500).
- 2006 Ad-Hoc Award (for brave, random, or strange presentation), Stony Brook University (Priceless).
- 2005 Constance Boone Award (best student presentation), American Malacological Society (\$500).
- 2005 Robert R. Sokal Award, Stony Brook University (\$500).
- 2004 Stephen and Ruth Wainwright Fellowship, Friday Harbor Laboratories (\$6,600).
- 2002 Graduate Student Fellowship, Friday Harbor Laboratories (\$1,500).

TEACHING

Instructor

- 2022-present Intertidal Ecology, California State Polytechnic University, Humboldt
- 2021-present Population and Community Ecology, California State Polytechnic University, Humboldt
- 2021-present Introduction to Graduate Studies, California State Polytechnic University, Humboldt
- 2018-2020 Methods of Laboratory Instruction (graduate seminar), Humboldt State University
- 2016-present Plant/Animal Interactions (graduate seminar), Humboldt State University
- 2014-2020 Invertebrate Zoology (undergraduate), Humboldt State University
- 2014-2020 Marine Biology (undergraduate), Humboldt State University



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2014 Water and the Environment (undergraduate), Michigan State University, Co-Instructor
2008 Organisms to Ecosystems (undergraduate), Stony Brook University, Co-Instructor
2008 Biometry (graduate), Stony Brook University

Teaching Assistant

2009 Marine Ecology (undergraduate), Stony Brook University
2007 Biometry (graduate), Stony Brook University
2006 General Ecology (undergraduate), Stony Brook University
2006 Aquatic Vertebrate Zoology (undergraduate), Stony Brook University
2001 Invertebrate Zoology (undergraduate), Stony Brook University
1999 General Ecology (undergraduate), University of Massachusetts, Dartmouth
1997-1998 Organismal Biology (undergraduate), University of Massachusetts, Dartmouth

Invited Lectures

2008 How do Prey Deal with Consumer Pressure in Marine Habitats? Marine Ecology Course, Stony Brook University

ADVISING

Current Graduate Students

2023 Keana Richardson, M.S. student
2023 Brayden Wiley, M.S. student
2022-present Sandra Traverso, M.S. student
2022-present Jake Vargas, M.S. student
2021-present Robyn Norman, M.S. student (co-advised by P. Goley)

Past Graduate Students

2021-2023 Rose Harman, M.S.
2022-2023 Taylor Brunttil, M.S.
2021-2023 Bailey McCann, M.S.
2018-2020 Kindall Murie, M.S.
2018-2020 Andrea Fieber, M.S.
2017-2020 Wesley Hull, M.S.
2017-2019 Lily McIntire, M.S.
2016-2019 Timothy McClure, M.S.
2016-2019 Angela Jones, M.S.
2016-2018 Tharadet Man, M.S.
2015-2018 Tayler Tharaldson, M.S.

Graduate Student Committees

2023 Jakob Joachin, M.S. committee, Cal Poly Humboldt
2023 Emmery Parker, M.S. committee, Cal Poly Humboldt
2023 Juhi LaFuente, M.S. committee, Cal Poly Humboldt
2022-present Ryan Beshai, Ph.D. committee, UC Irvine
2021-2023 Hannah Joss, M.S. committee, Cal Poly Humboldt
2021-2023 Victoria Cifelli, M.S. committee, Cal Poly Humboldt
2021-present Jekka Jones, M.S. committee, Cal Poly Humboldt



2020-2022	Samantha Diel, M.S. committee, HSU
2020-2023	Parker Lund, M.S. committee, HSU
2019-2022	Sandrine Grandmont, M.S. committee, HSU
2019-2022	Emma Levy, M.S. committee, HSU
2019-present	Alex Strawhand, M.S. committee, HSU
2019-2023	Claire Windecker, M.S. committee, HSU
2018-present	Shannon Hedge, M.S. committee, HSU
2017-2023	Johnny Roche, M.S. committee, HSU
2017-2023	Nan Hu, Ph.D. committee, Lund University
2017-2021	Kyle Orr, M.S. committee, HSU
2017-2021	David Charifson, Ph.D. committee, Stony Brook University
2017-2020	Amanda Haas, M.S. committee, Cal State Long Beach
2016-2018	Jean-Paul Ponte, M.S. committee, HSU
2016-2022	Jason Lopiccolo, M.S. committee, HSU
2015-2018	Drew Bost, M.S. committee, HSU
2014-present	Franklin Moitza, M.S. committee, HSU
2014-2018	Johnathan Centoni, M.S. committee, HSU
2014-2019	Jana Litt, M.S. committee, HSU
2014-2017	Michelle Succow, M.S. committee, HSU

INVITED SEMINARS/PRESENTATIONS

2022	Friends of the Lost Coast, Whitehorn, CA
2019	Department of Biological Sciences, California State University-Long Beach
2018	Department of Biology, Virginia Commonwealth University
2018	Gordon Research Conference, Predator-Prey Interactions, Ventura, CA
2017	Bodega Marine Laboratory, University of California, Davis
2014	Biology Department, San Diego State University
2014	Department of Biological Sciences, University of Wisconsin-Parkside (declined)
2014	Department of Biological Sciences, Humboldt State University
2013	Department of Oceanography and Coastal Sciences, Louisiana State University
2013	Department of Biology, Louisiana State University
2012	International Symposium on Phenotypic Plasticity – Variation, Alteration and Speciation', Lund University, Sweden
2012	Ecology, Evolutionary Biology, and Behavior Colloquium, Michigan State University
2011	Department of Biological Sciences, California State University-Long Beach
2010	Graduate Student Organization Seminar Series, Michigan State University
2009	Biology Department, Muhlenberg College
2006	Friday Harbor Laboratories, University of Washington

PRESS

2016	Interview for NBC News Channel 3 (KIEM), Eureka, CA 'Dungeness – the Heartbreak and the Hope'. Aired 23 May. http://kiem-tv.com/video/dungeness-heartbreak-and-hope-part-one
2015	Interview for Heredity Podcast featuring my paper 'What can aquatic gastropods tell us about phenotypic plasticity? A review and meta-analysis'. Aired July 2015. (Link to podcast:



http://www.nature.com/multimedia/podcast/hdy/hdypodcast_1507.mp3)

- 2015 Interview for ABC News Channel 7 (KRCR), Eureka, CA. Posted 27 May.
<http://www.krcrtv.com/north-coast-news/eureka-news/humboldt/by-the-wind-sailor-washes-ashore-north-coast-beaches/11268519>
- 2008 Interview for Nature News story based on work I presented at the Ecological Society of America meeting in Milwaukee, Wisconsin, on 6 August. Published online on 8 Aug. (Link to Nature News article: <http://www.nature.com/news/2008/080808/full/news.2008.1022.html>)

CONTRIBUTED PAPERS (* denotes student advisees)

- 2023 Traverso* SE, Bourdeau PE. Can rock crabs assist in the recovery of northern California kelp forests? (poster) Western Society of Naturalists, Monterey, CA
- 2023 Bourdeau PE, McClure* TI. Positive effects of a predator on prey growth rate through reduction of prey foraging (poster) Western Society of Naturalists, Monterey, CA
- 2023 Norman* RE, Bourdeau PE, Goley PD. Pacific Coast Feeding Group gray whales likely consumed low-quantity and low-quality prey at the southern edge of their feeding range (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 Vargas* JR, Bourdeau PE. Microbes: rapid degrader or key constituent of predator risk cues? (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 McCann* BN, Bourdeau PE. Will climate warming amplify the competitive and predator effects of a range-expanding marine gastropod? (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 Beshai* RA, Bourdeau PE, Ladah LB, Lorda J, Sorte CJB. The population impacts of two range-expanding predators along the northeast Pacific coast (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 Bruntl* TR, Bourdeau PE. Are diverse communities more resistant to invasion? A case study with marine invertebrate fouling communities (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 Harman* RM, Marín Jarrín JR, Bourdeau PE. Effects of oyster aquaculture on elasmobranch abundance and habitat use in a large coastal estuary (oral presentation) Western Society of Naturalists, Monterey, CA
- 2023 Bourdeau PE, McClure* TI. Positive effects of a predator on prey growth rate through reduction of prey foraging (poster) Ecological Society of America, Portland, OR
- 2022 Norman* RE, Bourdeau PE, Goley PD. Characterizing the invertebrate prey base of pacific coast feeding group gray whales (*Eschrichtius robustus*) in Northern CA, USA (poster) Western Society of Naturalists, Oxnard, CA
- 2022 McCann* BN, Bourdeau PE. Is a marine-expanding gastropod a competitive threat to local species? (poster) Western Society of Naturalists, Oxnard, CA
- 2022 Vargas* JV, Bourdeau PE. Could microbes be both a rapid degrader and key component of predatory risk cues? (poster) Western Society of Naturalists, Oxnard, CA
- 2022 Harman* RM, Bourdeau PE. Effects of aquaculture-based habitat modification on elasmobranch abundance in Humboldt Bay, CA (poster) Western Society of Naturalists, Oxnard, CA



- 2019 Murie* KA, Bourdeau PE. Kelp help: fragmented *Nereocystis luetkeana* forests alter seawater chemistry, mitigating ocean acidification (oral presentation) Western Society of Naturalists, Ensenada, Mexico
- 2019 Hull* WWW, Bourdeau PE. Breaking and entering: Disentangling multiple predator effects of crabs and sea stars on California mussels. (best student poster award) Western Society of Naturalists, Ensenada, Mexico
- 2019 Fieber* AM, Bourdeau PE. Impacts of ocean acidification on intertidal macro algae and algivore preference. (poster) Western Society of Naturalists, Ensenada, Mexico
- 2019 McIntire* LC, Bourdeau PE. Can't take the heat? Get out of the tidepools: evaluating the temperature regulation in gumboot chitons. (oral presentation) Western Society of Naturalists, Ensenada, Mexico
- 2018 McIntire* LC, Bourdeau PE. Testing the effects of elevated temperature on gumboot chitons with the use of biomimetic models and laboratory experiments. (poster) Western Society of Naturalists, Tacoma, WA
- 2018 Hull* WWW, Man* TD, Roche* JS, Bourdeau PE. Do rock crabs drive patterns of California mussel growth and shell deposition on moderately wave-protected rocky shores? (poster) Western Society of Naturalists, Tacoma, WA
- 2018 Haas* AC, Bourdeau PE, Allen BJ. Modeling effects of ocean acidification on predator-prey dynamics in the rocky intertidal zone. (poster) Western Society of Naturalists, Tacoma, WA
- 2018 McClure* TI, Bourdeau PE. Ecological consequences of sea star wasting disease: non-consumptive effects from *Pisaster ochraceus*. (oral presentation) Western Society of Naturalists, Tacoma, WA
- 2018 Murie* KA, Bourdeau PE. Identity-driven non-consumptive effects on the rocky shore: 'the only thing you have to fear...is *Pisaster* itself'. (oral presentation) Western Society of Naturalists, Tacoma, WA
- 2018 Jones* AJ, Bourdeau PE. Morphological variation in aboral spines in the forcipulate sea star, *Pisaster ochraceus*, across developmental and environmental gradients. (oral presentation) Society for Integrative and Comparative Biology, San Francisco, CA.
- 2017 Gravelle* JM, Bourdeau PE. How environmental stressors influence the lytic abilities of *Anthopleura elegantissima*. (poster) Western Society of Naturalists, Pasadena, CA.
- 2017 Jones* AJ, Bourdeau PE. Morphological variation in aboral spines in the forcipulate sea star, *Pisaster ochraceus*, across environmental gradients. (oral presentation) Western Society of Naturalists, Pasadena, CA.
- 2017 Man* TD, Bourdeau PE. The interactive effects of food availability and ocean acidification on the physiology and growth of the California mussel. (oral presentation) Western Society of Naturalists, Pasadena, CA.
- 2017 McClure* TI, Bourdeau PE. Ecological consequences of sea star wasting disease: effects on trait-mediated indirect interactions from *Pisaster ochraceus*. (poster) Western Society of Naturalists, Pasadena, CA.
- 2017 McIntire* LC, Bourdeau PE. Crab driven shell variation in field populations of *Nucella lamellosa* in two distinct geographic regions. (poster) Western Society of Naturalists, Pasadena, CA.
- 2017 Zuelow* AN, Aguilar* AK, Jones* AJ, Bourdeau PE. Tradeoffs between skeletal development and soft tissue growth in *Pisaster ochraceus* across a wave-exposure gradient. (poster) Western Society of Naturalists, Pasadena, CA.
- 2016 Hull* WWW, Bourdeau PE. Predatory crabs can influence the vertical distribution of mussels on rocky shores in the absence of a keystone predator. (poster) Western Society of Naturalists, Monterey, CA.



- 2016 Jones* AJ, Orr* KP, Zuelow* AN, Bourdeau PE. Seasonal and spatial variation in aboral ossicle density and body shape in *Pisaster ochraceus*. (poster) Western Society of Naturalists, Monterey, CA.
- 2016 McIntire* LC, Bourdeau PE. The non-lethal effects of predators on predatory whelk, *Nucella lamellosa*, shell morphology. (poster) Western Society of Naturalists, Monterey, CA.
- 2016 Shapiro* SJ, Bourdeau PE. Gastropod calisthenics- an investigation of righting speed and tensile strength in the intertidal whelk *Nucella ostrina*. (poster) Western Society of Naturalists, Monterey, CA.
- 2016 Swanson* KL, Taylor* KJ, Goshorn* GV, Bourdeau PE. Snail warfare: an invasive species' behavioral response to native crabs. (poster) Western Society of Naturalists, Monterey, CA.
- 2016 Bourdeau PE, Hull* W, Jones* A, McIntire* L, Roche* J, Allen, BJ. Potential effects of ocean acidification and thermal stress on intertidal communities in the field. Society for Integrative and Comparative Biology, Portland, OR.
- 2016 Allen BJ, Bourdeau PE, Miller LP, Denny, MW. Predicting ecological consequences of increasing temperature variability: matching data with theory. Society for Integrative and Comparative Biology, Portland, OR.
- 2015 Litt* JN, Tissot BN, Bourdeau PE, Schneider* JH, Korcheck* KM. Vertical distribution of sea star wasting disease in northern California. Western Society of Naturalists, Sacramento, CA.
- 2015 Roche* JS, Bourdeau PE. Prey selection in eastern Pacific cancrid crabs: what influences choice when you're served a menu of mollusks? Western Society of Naturalists, Sacramento, CA.
- 2015 Hull* WWW, McIntire* LC, MacRae* KE, Mobley* SM, Nutt* LM, Allen BJ, Bourdeau PE. The influence of upwelling-driven ocean acidification on organismal growth and performance in a simple intertidal food chain. (poster) Western Society of Naturalists, Sacramento, CA.
- 2015 Jones* AJ, Orr* KP, Bourdeau PE. Body size and morphology of the keystone predator *Pisaster ochraceus* across an upwelling gradient in the eastern pacific. (poster) Western Society of Naturalists, Sacramento, CA.
- 2015 Scaramella* NR, Anderson* TK, Kottenbach* BE, Simmons* MJ, Bourdeau PE. Variation in body size and condition of a keystone predator and its prey across an upwelling gradient in northern California. (poster) Western Society of Naturalists, Sacramento, CA.
- 2015 Taylor* KJ, Swanson* KL, Phan* ME, Bourdeau PE. Humboldt Bay: 95 problems but a green crab ain't one. (poster) Western Society of Naturalists, Sacramento, CA.
- 2013 Bourdeau PE, Pangle KL, Reed* EM, Peacor SD. Not-so-naïve: a native prey recognizes and responds specifically to a novel predator in a freshwater system. Ecological Society of America, Minneapolis, MN.
- 2013 Bourdeau PE, Pangle KL, Vanderploeg HA, Peacor SD. The effect of *Bythotrephes* on *Daphnia* vertical distribution in Lake Michigan. International Association for Great Lakes Research, West Lafayette, IN.
- 2012 Bourdeau PE, Pangle KL, Mason D, Peacor SD. Predicting non-consumptive predator effects on multiple prey in a complex natural system. Ecological Society of America, Portland, OR.
- 2011 Bourdeau PE, Pangle KL, Peacor SD. Non-consumptive predator effects in a pelagic food-web: Species- and developmental stage-level variation in behavioral responses to an invasive predator within a zooplankton assemblage. Ecological Society of America, Austin, TX.
- 2011 Bourdeau PE, Pangle KL, Peacor SD. Non-Consumptive Effects on Lesser- Preferred Prey: Does *Bythotrephes* Affect the Vertical Distribution and Migration of Native Copepods in the Great Lakes? International Association for Great Lakes Research, Duluth, MN.
- 2010 Bourdeau PE. Mechanism of an inducible morphological defense: active physiological response or



- behavioral by-product? Society for Integrative and Comparative Biology, Seattle, WA.
- 2009 Pangle KL, Bourdeau PE, Peacor SD. Non-consumptive effects of *Bythotrephes* in Lake Michigan. Dorset *Bythotrephes* Workshop, Dorset, Canada.
- 2009 Bourdeau PE. Stuck between a rock crab and a hard place: responses to multiple predators in a marine snail. Society for Integrative and Comparative Biology, Boston, MA.
- 2008 Bourdeau PE. Danger determines inducible defense priority in a marine snail. Ecological Society of America, Milwaukee, WI.
- 2008 Bourdeau PE. Danger determines inducible defense priority in a marine snail. Benthic Ecology Meeting, Providence, RI.
- 2007 Gray SM, Hoch JM, Bourdeau PE, Allen BJ, Bernatchez G. Variable responses of a key salt marsh facilitator to multiple invasive predators. (poster) Ecological Society of America, San Jose, CA.
- 2007 Padilla DK, Bourdeau PE, Moore B, Porter K, Klinger T. Temperature limits reproduction but not invasion by an aquaculture species. (poster) World Aquaculture Society, Seattle, WA.
- 2006 Bourdeau PE. Defensive trait integration in three sympatric, congeneric marine snails, *Nucella* spp., differentially distributed across a predation risk gradient. American Malacological Society, Seattle, WA.
- 2006 Padilla DK, Bourdeau PE, Grunbaum D. Can behavioral plasticity enhance the effects of morphological plasticity? Society for the Study of Evolution, Stony Brook, NY.
- 2006 Bourdeau PE. Species-specific and predator-dependent inducible defenses in predatory snails, *Nucella* spp. Benthic Ecology Meeting, Quebec City, Canada.
- 2005 Bourdeau PE. Behavioral and morphological defenses in predatory marine gastropods *Nucella* spp. American Malacological Society, Monterey, CA.
- 2005 Bourdeau PE. Integration of anti-predator behavior and morphology in three species of rocky intertidal gastropods. Society for Integrative and Comparative Biology, San Diego, CA.
- 2004 Bourdeau PE, Padilla DK. 'Might as well jump': Inducible dispersal in response to environmental cues in two species of Littorine snails. Society for Integrative and Comparative Biology, New Orleans, LA.
- 2002 Bourdeau PE, O'Connor NJ. Prey selection by the invasive shore crab *Hemigrapsus sanguineus* in southeastern Massachusetts. (poster) Benthic Ecology Meeting, Tallahassee, FL.
- 1999 Bourdeau PE, O'Connor NJ. Prey preferences of the recently-introduced western Pacific shore crab, *Hemigrapsus sanguineus*, feeding on molluscs and macroalgae in southeastern Massachusetts. (poster) First National Conference on Marine Bioinvasions, Cambridge, MA.

BOOK REVIEWS AND WEB-BASED PUBLICATIONS

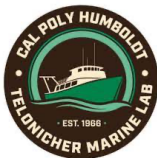
Bourdeau PE (2009) Mixed Effects Models and Extensions in Ecology with R. *The Quarterly Review of Biology* 84: 404.

Lachance J, Bourdeau PE (2009) Online supplements in *Evolution* by Doug Futuyma, 2nd ed. Sinauer Associates, Sunderland MA.

SERVICE

Ad hoc reviews

Science, *Science of the Total Environment*, *The Quarterly Review of Biology*, *BMC Biology*, *Proceedings of the Royal Society London B*, *Ecology*, *Scientific Reports*, *The American Naturalist*, *PLoS One*, *Functional Ecology*, *Journal of Biogeography*, *Limnology and Oceanography*, *Biology Letters*, *Proceedings of the Royal Society Interface*, *Oecologia*, *Oikos*, *Animal Behaviour*, *Behavioral Ecology*, *Marine Ecology Progress Series*, *Integrative and Comparative Biology*,



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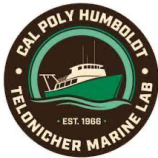
1 Harpst Street, Arcata, CA 95520 • 570 Ewing Street, Trinidad, CA 95570 (707.826.3600) ✉ peb112@humboldt.edu 🌐 <https://bourdeaulab.weebly.com/>

Hydrobiologia, Journal of Great Lakes Research, Marine Biology, Journal of Experimental Marine Biology and Ecology, Ecology and Evolution, Evolutionary Ecology Research, Marine Ecology, The Biological Bulletin, Journal of Molluscan Studies, Invertebrate Biology, American Malacological Bulletin

National Science Foundation (DBO, DEB), NOAA, CSU-COAST, Humboldt State University Marine and Coastal Sciences Institute, Cal Poly Humboldt Agricultural Research Institute

Other service

- 2023 Telonicher Marine Laboratory Strategic Planning Committee
- 2022-present Institutional Review Board, Cal Poly Humboldt
- 2022 Mentor, Western Society of Naturalists Mentorship Program
- 2022-2023 Diversity, Equity, and Inclusion Committee, Department of Biological Sciences, Cal Poly Humboldt
- 2022-present Telonicher Marine Laboratory Alternate Delegate, National Association of Marine Laboratories
- 2022-present College of Natural Resources and Sciences Representative, RTPC&S Committee, Cal Poly Humboldt
- 2021-present Cal Poly Humboldt Campus Representative, CSU Council on Ocean Affairs, Science, and Technology
- 2021-present Lecturer Evaluation Committee, Department of Biological Sciences, Cal Poly Humboldt
- 2021-2022 Curriculum Committee, Department of Biological Sciences, Cal Poly Humboldt
- 2018-present Graduate Advisory Committee, Department of Biological Sciences, Humboldt State University
- 2018-present Steering Committee, Humboldt Marine and Coastal Sciences Institute
- 2017-present Brusca Award Committee, Department of Biological Sciences, Humboldt State University
- 2016-present Biology Minor Advisor, Department of Biological Sciences, Humboldt State University
- 2016-present Executive Committee, Marine and Coastal Sciences Institute, Humboldt State University
- 2015-2018 Faculty Advisor, Biology Graduate Student Association, Humboldt State University
- 2015-2018 Coordinator, Biological Graduate Student Association Seminar Series, Humboldt State University
- 2015-present College of Natural Resources and Sciences, Computer Committee, Humboldt State University
- 2015-2022 Judge, Student Paper Competitions, Western Society of Naturalists Annual Meeting
- 2015 External Advisory Committee for the Mendocino College Coastal Field Station, Point Arena, CA
- 2014-present Graduate Student Research Award Committee, Humboldt State University
- 2014-2017 Freshmen Seminar Student Mentor, Humboldt State University
- 2010 Tokyo University Summer Environmental Exchange Program, Michigan State University
- 2008 Graduate Student Representative, Search Committee for Ecological / Evolutionary Statistics position, Stony Brook University
- 2007 Human Systems in the Northwest Bioregion, English Language Programs, Keio University at the University of Washington
- 2006-2007 Graduate Student Representative to the Faculty, Stony Brook University
- 2005-2007 Co-Organizer, Williams and Slobodkin Invited Lectures, Stony Brook University
- 2005 Graduate Student Advocate for Preliminary Exam Committee, Stony Brook University
- 2004 Graduate Student Mentor - Committee for Increasing Diversity in the Society for Integrative and Comparative Biology



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2003-2007 Graduate Student Representative, Ilg Distinguished Lecture Committee, University of Washington, Friday Harbor Laboratories, Friday Harbor, WA,

PROFESSIONAL SOCIETY AFFILIATIONS (past decade)

Ecological Society of America, Society for Integrative and Comparative Biology, Sigma Xi, American Malacological Society, International Association of Great Lakes Research, Western Society of Naturalists