

CASCADE J. B. SORTE
Curriculum vitae, updated March 2018

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ACADEMIC PREPARATION

- 2005-2010 Ph.D., Evolution and Ecology, University of California - Davis
Thesis: *Climate change, species invasions, and the composition of marine communities*
- 2001-2003 M.A., Ecology, Evolution, and Marine Biology, University of California - Santa Barbara
Thesis: *The ecophysiological underpinnings of biogeographic patterns: temperature effects on the distributions of Nucella congeners*
- 1995-1999 B.A., Biology, Whitman College
Thesis: *Larval dynamics of the sand crab, Emerita analoga, off the central Oregon coast during a strong El Niño period*

POSITIONS HELD

- 2014-present Assistant Professor, University of California - Irvine
2011-2013 Visiting Research Assistant Professor, Northeastern University
2010-2013 Postdoctoral Research Associate, University of Massachusetts - Boston

PUBLICATIONS (*advisees denoted as *students and #postdoctoral researchers*)

- . *Pandori LLM, **Sorte CJB** (*in revision*) The weakest link: climate change vulnerability across life stages of marine invertebrates.
- . Bracken MES, #Silbiger NJ, Bernatchez G, **Sorte CJB** (*in revision*) Primary producers ameliorate impacts of CO₂ addition in a coastal marine ecosystem.
- . **Sorte CJB**, Bernatchez G, *Pandori LLM, #Silbiger NJ, *Wallingford PD (*in revision*) Warming tolerances and predicted distributional shifts differ by species in a diverse intertidal mussel guild.
33. #Silbiger NJ, **Sorte CJB** (2018) Biophysical feedbacks mediate carbonate chemistry in coastal ecosystems across spatiotemporal gradients. *Scientific Reports*. DOI: 10.1038/s41598-017-18736-6
32. **Sorte CJB**, *Pandori LLM, Cai S, Davis K (2018) Predicting persistence in benthic marine species with complex life cycles: linking dispersal dynamics to redistribution potential and thermal tolerance limits. *Marine Biology*. DOI: 10.1007/s00227-017-3269-8
31. Bonebrake TC, Brown CJ, Bell JD, Blanchard J, Chauvenet A, Champion C, Chen I-C, Clark TD, Colwell RK, Danielsen F, Dell AI, Donelson JM, Evengard B, Ferrier S, Frusher S, Garcia RA, Griffis RB, Hobday AJ, Jarzyna MA, Lee E, Lenoir J, Linnetved H, Martin VY, McCormack PC, McDonald J, E McDonald-Madden, Mitchell N, Mustonen T, Pandolfi JM, Pettorelli N, Possingham H, Pulsifer P, Reynolds M, Scheffers BR, **Sorte CJB**, Strugnell JM, Tuanmu M-N, Twiname S, Verges A, Villanueva C, Wapstra E, Wernberg T, Pecl GT. (2018) Climate-driven species redistribution requires integrated research to protect biodiversity and maintain human benefits. *Biological Reviews*. 93:284-305. DOI: 10.1111/brv.12344.
30. Pecl GT, Araujo MB, Bell JD, Blanchard J, Bonebrake TC, Chen I-C, Clark TD, Colwell RK, Danielsen F, Evengard B, Falconi L, Ferrier S, Frusher S, Garcia RA, Griffis R, Hobday AJ, Janion-Scheepers C, Jarzyna MA, Jennings S, Lenoir J, Linnetved HI, Martin VY, McCormack PC, McDonald J, Mitchell NJ, Mustonen T, Pandolfi JM, Pettorelli N, Popova E, Robinson SA, Scheffers BR, Shaw JD, **Sorte CJB**, Strugnell JM, Sunday JM, Tuanmu M-N, Verges A, Villanueva C, Wernberg T, Wapstra E, Williams SE (2017) Biodiversity redistribution under climate change: impacts on ecosystems and human well-being. *Science*. 355(6332): eaai9214. DOI: 10.1126/science.aai9214.
29. Van Gennip SJ, Popova EE, Yool A, Pecl GT, Hobday AJ, **Sorte CJB** (2017) Going with the flow: the role of ocean circulation in global marine ecosystems under a changing climate. *Global Change Biology*. 23(7):2602-2617. DOI: 10.1111/gcb.13586.

28. **Sorte CJB**, *Davidson VE, *Franklin MC, Benes KM, Doellman MM, Etter RJ, Hannigan RE, Lubchenco J, Menge BA (2017) Long-term declines in an intertidal foundation species parallel shifts in community composition. *Global Change Biology*. 23:341-352. DOI:10.1111/gcb.13425.
27. Early R, Bradley BA, Dukes JS, Lawler JJ, Olden JD, Blumenthal DM, Gonzalez P, Grosholz ED, Ibáñez I, Miller LP, **Sorte CJB**, Tatem AJ (2016) Global threats from invasive species in the 21st century and national response capacities. *Nature Communications*. 7. doi:10.1038/NCOMMS12485.
26. **Sorte CJB** (2016) Evolution and invasive species. *In: Encyclopedia of Evolutionary Biology* (Ed: Kliman R) Elsevier Ltd, Oxford, UK. 2:282-287.
25. **Sorte CJB**, Bracken MES (2015) Warming and elevated CO₂ interact to drive rapid shifts in marine community production. *PLoS ONE*. 10:e0145191.
24. Bradley BA, Early RI, **Sorte CJB** (2015) Space to invade? Comparative range infilling and potential range of invasive and native plants. *Global Ecology & Biogeography*. 24:348-359.
23. **Sorte CJB** (2014) Synergies between climate change and species invasions: evidence from marine systems. *In: Invasive Species and Global Climate Change* (Eds: Ziska LH, Dukes JS) CABI Publishing, Oxfordshire, UK.
22. Ibáñez I, Diez JM, Miller LP, Olden JD, **Sorte CJB**, Blumenthal DM, Bradley BA, D'Antonio CM, Dukes JS, Early RI, Grosholz ED, Lawler JJ (2014) Integrated assessment of biological invasions. *Ecological Applications*. 24:25-37.
21. Bates AE, McKelvie CM, **Sorte CJB**, Morley SA, Jones N, Mondon J, Bird TJ, Quinn G (2013) Geographical range, heat tolerance, and invasion success in aquatic species. *Proceedings of the Royal Society B*. 280: 20131958.
20. **Sorte CJB**, Etter RJ, *Spackman R, Boyle EE, Hannigan RE (2013) Elemental fingerprinting of mussel shells to predict population sources and redistribution potential in the Gulf of Maine. *PLoS ONE*. 8:e80868.
19. **Sorte CJB**, White JW (2013) Competitive and demographic leverage points of community shifts under climate warming. *Proceedings of the Royal Society B*. 280:20130572.
18. **Sorte CJB**, Ibáñez I, Blumenthal DM, Molinari NA, Miller LP, Grosholz ED, Diez JM, D'Antonio CM, Olden JD, Jones SJ, Dukes JS (2013) Poised to prosper? A cross-system comparison of climate change effects on native and non-native species performance. *Ecology Letters*. 16:261-270.
17. **Sorte CJB** (2013) Predicting persistence in a changing climate: flow direction and limitations to redistribution. *Oikos*. 122:161-170.
16. *Cockrell MA, **Sorte CJB** (2013) Predicting climate-induced changes in population dynamics of invasive species in a marine epibenthic community. *Journal of Experimental Marine Biology and Ecology*. 440:42-48.
15. Diez JM, D'Antonio CM, Dukes JS, Grosholz ED, Olden JD, **Sorte CJB**, Blumenthal DM, Bradley BA, Early R, Ibáñez I, Jones SJ, Lawler J, Miller LP (2012) Will extreme climatic events facilitate biological invasions? *Frontiers in Ecology and the Environment* 10:249-257.
14. Bradley BA, Blumenthal DM, Early RI, Grosholz ED, Lawler JJ, Miller LP, **Sorte CJB**, D'Antonio CM, Diez JM, Dukes JS, Ibáñez I, Olden JD (2012) Global change, global trade, and the next wave of plant invasions. *Frontiers in Ecology and the Environment* 10:20-28.
13. Fischer EV, Mackey KRM, Cusack DF, DeSantis LRG, Harzell-Nichols L, Lutz JA, Melbourne-Thomas J, Meyer R, Riveros-Iregui DA, **Sorte CJB**, Taylor JR, White SA (2012) Pre-tenure interdisciplinary research: is it a career risk? *Eos, Transactions of the American Geophysical Union* 93:311-312.
12. Bracken MES, Menge BA, Foley MM, **Sorte CJB**, Lubchenco J, Schiel DR (2012) Mussel selectivity for high-quality food drives carbon inputs into open-coast intertidal ecosystems. *Marine Ecology Progress Series* 459:53-62.
11. **Sorte CJB**, Stachowicz JJ (2011) Patterns and processes of compositional change in a California epibenthic community. *Marine Ecology Progress Series* 435:63-74.
10. **Sorte CJB**, Jones SJ, Miller LP (2011) Geographic variation in temperature tolerance as an indicator of potential population responses to climate change. *Journal of Experimental Marine Biology and Ecology* 400:209-217.

9. *Zerebecki RA, **Sorte CJB** (2011) Temperature tolerance and stress proteins as mechanisms of invasive species success. *PLoS ONE* 6:e14806.
8. **Sorte CJB**, Williams SL, *Zerebecki RA (2010) Ocean warming increases threat of invasive species in a marine community. *Ecology* 91:2198-2204.
7. **Sorte CJB**, Williams SL, Carlton JT (2010) Marine range shifts and species introductions: comparative spread rates and community impacts. *Global Ecology and Biogeography* 19:303-316.
6. **Sorte CJB**, *Fuller A, Bracken MES (2010) Impacts of a simulated heat wave on composition of a marine community. *Oikos* 119:1909-1918.
5. Harley CDG, Hughes AR, Hultgren K, Miner BG, **Sorte CJB**, Thornber CS, Rodriguez LF, Tomanek L, Williams SL (2006) The impacts of climate change in coastal marine systems. *Ecology Letters* 9:228-241.
4. **Sorte CJB**, Hofmann GE (2005) Thermotolerance and heat-shock protein expression in Northeastern Pacific *Nucella* species with different biogeographical ranges. *Marine Biology* 146:985-993.
3. **Sorte CJB**, Hofmann GE (2004) Changes in latitudes, changes in aptitudes: *Nucella canaliculata* (Mollusca: Gastropoda) is more stressed at its range edge. *Marine Ecology Progress Series* 274:263-268.
2. Halpin PM, **Sorte CJ**, Hofmann GE, Menge BA (2002) Patterns of variation in levels of Hsp70 in natural rocky shore populations from microscales to mesoscales. *Integrative and Comparative Biology* 42:815-824.
1. **Sorte CJ**, Peterson WT, Morgan CA, Emmett RL (2001) Larval dynamics of the sand crab, *Emerita analoga*, off the central Oregon coast during a strong El Niño period. *Journal of Plankton Research* 23:939-944.

GRANTS

- Sorte C (PI)**, Bracken M (co-PI), Miller L (co-PI, SJSU), Kroeker K (co-PI, UCSC) (2018-2021) Collaborative Research: Effects of multiple aspects of climate change on marine biodiversity and ecosystem functioning. National Science Foundation Biological Oceanography (\$475,916 to UCI; \$668,000 total)
- Sorte C** (2017-2018) Science Writing Integrated Mentoring (SWIM) Program: Increasing Confidence and Effectiveness of UDW in the Sciences. Campus Writing Center Writing Pedagogy Grant, UC-Irvine (\$2,000).
- Sorte C (PI)**, Bracken M (co-PI) (2016-2017) Effects of multiple aspects of climate change on marine biodiversity and ecosystem functioning. Single and Multi-investigator Research Projects Seed Funding Award, UC-Irvine (\$39,400).
- Sorte C (PI/Director)** (2015-2016) International Colloquium: Will Impacts of Global Change be Greater than the Sum of its Parts? Albert & Elaine Borchard Foundation (\$35,000).
- Davis K (Engineering PI), **Sorte C** (Ecology PI) (2015-2016) Coping with climate change: integrating computational fluid dynamics and ecophysiology to assess poleward range shifts in an equatorward current system. Interdisciplinary Innovation Initiative, UC-Irvine (\$30,975).
- Bracken M, **Sorte C** (2014-2017) Marine Biology Seawater Laboratory. Small Capital Improvement Program, UC-Irvine (\$200,000).
- Sorte C (PI)**, Etter RJ, Hannigan R (2013-2016) Are blue mussels declining in the Gulf of Maine?: population trajectories, connectivity, and spatiotemporal variation in reproduction. MIT Massachusetts Sea Grant (\$145,999).
- Sorte CJB (PI)**, Dukes JS, Lawler JJ (2010-2012) Working group: Climate change and invasive species: are non-natives poised for greater success in future climatic conditions? National Center for Ecological Analysis and Synthesis (\$65,625 for 4 working group meetings).

HONORS & AWARDS

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| 2017 | Early Career Fellow, Ecological Society of America |
| 2014 | Scientist in Residency Fellow, Sitka Sound Science Center, AK |
| 2011 | Selected to participate in NSF/NASA DISCCRS (DISsertation initiative for the advancement of Climate Change ReSearch) Symposium |

2011	Selected to participate in NSF ADVANCE workshop, Rice University
2009	American Association of University Women American Dissertation Fellow (\$20,000)
2009	College of Biological Sciences Dean's Circle Mentorship Award (\$2,500 fellowship & \$2,500 to support an undergraduate research assistant), UC-Davis
2008	Coastal Environmental Quality Initiatives Fellowship from the Ocean Protection Council (\$30,000)
2006	Bodega Marine Lab Fellow, UC-Davis (\$8,500)
2005-2007	Block Grants, Graduate Group in Ecology, UC-Davis (\$17,000)
2002	Honorable Mention, Best Student Paper Competition, Western Society of Naturalists
2001-2002	Arizona State University Graduate Academic Scholarship (\$22,500; moved with advisor to UCSB)
1999	Elected to Sigma Xi, The Scientific Research Society
1995-1999	Claire Sherwood Memorial Fellow, Whitman College (\$15,000) for leadership potential
1995-1999	Academic Fellow, Whitman College (\$28,000)
1995-1999	Robert C. Byrd Congressional Scholar (\$6,000)

TEACHING

Instructor

Courses

Spring 2018	UNI STU3: Science of Cli-Fi
Spring 2018	Bio Sci E120: Marine Biology, co-taught with M. Bracken
Fall 2017	Bio Sci E190: Population & Community Ecology Lab (20 students)
Spring 2017	UNI STU 3: Science of Cli-Fi (11 students)
Spring 2017	Bio Sci E120: Marine Biology (165 students), co-taught with M. Bracken
Fall 2016	Bio Sci E186: Population & Community Ecology (6 students)
Spring 2016	Bio Sci E120: Marine Biology (100 students), co-taught with M. Bracken
Winter 2016	Eco Evo 221: Advanced Topics in Ecology (10 students)
Fall 2015	Bio Sci E186: Population & Community Ecology (6 students)
Spring 2015	Bio Sci E120: Marine Biology (93 students), co-taught with M. Bracken

Undergraduate Research: Bio Sci 199: Marine Ecology

Year	Students in	Fall	Winter	Spring
2017-18		3	3	4
2016-17		1	2	3
2015-16		2	2	3
2014-15		1	2	3

Guest Lectures

Winter 2015, 2016, 2018 ESS 60B: Local Environmental Issues

Teaching Experience – prior to UCI appointment

Instructor

2013	Marine Biology (undergraduate, 30 students), Northeastern University
2013	Climate Change (undergraduate, 35 students), Emerson College
2013	Invasive Species: Evolution, Ecology & Management (graduate, 4 students), UMass-Boston
2012	Marine Biology (undergraduate, 20 students), Northeastern University
2012	Climate Change (undergraduate, 30 students), Emerson College
2012	Invasive Species (undergraduate, 31 students), Emerson College
2011	Invasive Species: Evolution, Ecology & Management (graduate, 11 students), UMass-Boston
2011	Ecology (undergraduate, 40 students), Northeastern University
2010	Ecology (undergraduate, 90 students), Northeastern University
2005	Introduction to Principles of Biology Lab (undergraduate, 25 students), Santa Rosa Junior College

Teaching Assistant

- 2003 Invertebrate Biology, UC-Santa Barbara
 2003 General Biology II, UC-Santa Barbara
 2002 General Biology II, Arizona State University
 2001 Human Anatomy and Physiology, Arizona State University
 1999 Marine Biology, Whitman College

Guest Lectures

- 2012 Coastal and Marine Pollution, UMass-Boston
 2011 Global Change Biology, UMass-Boston
 Animal Behavior, Hampshire College
 Changing Oceans, Duke University
 2008, 09, 11 Invertebrate Zoology, Three Seas Program, Northeastern University Marine Science Center

ADVISING**Postdoctoral Scholars & Project Scientists**

- 2017-present Amy Henry (Project Scientist; *Community assembly processes in subtidal epibenthic communities*)
 2015-17 Nyssa Silbiger (currently Assistant Professor, California State University, Northridge)

Current Graduate Students

- 2018-present Heidi Waite, Ph.D. student
 2017-present Samuel Mahanes, Ph.D. student
 2015-present Piper Wallingford, Ph.D. student
 2014-present Lauren Pandori, Ph.D. candidate

Current Undergraduate Students

- 2018-present Haley Heesch, undergraduate researcher
 2017-present Ritika Singh
 2017-present Danny Truong, undergraduate researcher
 2017-present Eduardo Cruz, undergraduate researcher

Student Committees

- 2017-present Nalleli Carvajal, Ph.D. committee, Ecology & Evolutionary Biology (EEB), UC-Irvine
 2017-present Kendra Walters, Ph.D. committee, EEB, UC-Irvine
 2016-present Ashley Peterson, Ph.D. committee, EEB, UC-Irvine
 2015-present Alyssa Braciszewski, Ph.D. committee, EEB, UC-Irvine
 2015-present Laura Elsberry, Ph.D. committee, EEB, UC-Irvine
 2017 Chan Wai Shan Melanie, M.Phil. co-supervisor, University of Hong Kong
 2017 Shukai Cai, M.S. committee, Civil & Environmental Engineering, UC-Irvine
 2016 Kevin Rothstein-Kightly, Ph.D. committee, EEB, UC-Irvine
 2015 Kylla Benes, Ph.D. qualifying exam committee, UC-Irvine
 2014 Maggie Simon, Ph.D. qualifying exam committee, UC-Los Angeles

Past Graduate Students (3; from the Three Seas Marine Biology Master's Program, Northeastern University)

- 2009 Marcy Cockrell (currently Ph.D. student at University of South Florida)
 2009 Robyn Zerebecki (currently Ph.D. student at Northeastern University)
 2008 Adam Fuller (Ph.D. U. Alabama; currently Hatchery Director, Feather River College, Quincy, CA)

Past Undergraduate Students**Undergraduate Research: Bio Sci 199 students**

- Mackenzie Peich (2016-17), Samer Khan (2016), Savannah Todd (2015-16), Alyssa Medina (2015-16), Kunheng Cai (2015), Betzabe Alvizo (2014-15)

Research Interns

Keira Monuki (2016-17), Gabriella McGann (2015), Victoria Davidson (2014; Whitman College undergraduate senior thesis), Michael Hutson (2011), Jordan Tower (2011), Sarah Trieweiler (2011), Rachel Wong (2010), Melanie Evans (2006)

Summer Research Mentoring

UC-Irvine HBCU Summer Research Program: Kamaria Bush (2017)
 UMass-Boston Research Experiences for Undergraduates Program: Marcus Franklin (2013; Cornell University undergraduate senior thesis), Carissa McKinney (2011), Robert Spackman (2011)
 UC-Davis Bodega Marine Lab Research Experiences for Undergraduates Program: Jasmina Cerda (2009), Omar Bonilla (2007); served as Graduate Supervisor of BML REU program in 2009

INVITED SEMINARS

- 2018 Chancellor's Club, University of California, Irvine, CA
 University of California, Irvine, CA
 Multi-Agency Rocky Intertidal Network (MARINe) Conference, San Pedro, CA (Symposium Talk)
 University of California, Riverside, CA
- 2017 UCI Osher Lifelong Learning Institute, Irvine, CA (Public Lecture)
 Western Regional Panel (WRP) on Aquatic Nuisance Species, San Diego, CA (Keynote Lecture)
 Ecological Society of America Conference, Portland, OR (Organized Oral Session Talk)
 California State Summer School for Mathematics and Science, Irvine, CA (Distinguished Faculty Lecture)
 Estación Biológica de Doñana (Biological Station of Doñana), Seville, Spain
 Southern California Academy of Sciences, Santa Monica, CA (Symposium Talk)
 Concordia University, Irvine, CA
- 2016 Native Nations Protecting Coastal Land and Waters in California Symposium, Irvine, CA
 Darling Marine Center, University of Maine, Damariscotta, ME
 University of California, Merced, CA
 Neobiota International Conference on Biological Invasions, Vianden, Luxembourg (Keynote Lecture)
 Ecological Society of America Conference, Fort Lauderdale, FL (Symposium Talk)
 University of Exeter, Penryn, United Kingdom
 UCI Osher Lifelong Learning Institute, Irvine, CA (Public Lecture)
 Newport Bay Conservancy, Climate Change & El Niño Symposium, Newport Beach, CA (Public Lecture)
- 2015 Western Society of Naturalists Conference, Sacramento, CA (Symposium Talk)
 Humboldt State University, Arcata, CA
 Newport Bay Conservancy Symposium on Invasive Species, Costa Mesa, CA (Public Lecture)
 MIT Massachusetts Sea Grant, Boston, MA
 UCI "Building Partnerships for Ocean Health in Southern California" Conference, Irvine, CA
 Back Bay Science Center, Newport Beach, CA (Public Lecture)
 University of Canterbury, Christchurch, New Zealand
 University of Otago, Dunedin, New Zealand
 Victoria University, Wellington, New Zealand
 California State University, Fullerton, CA
 UCI Biological Sciences Faculty Retreat, Costa Mesa, CA
- 2014 University of Washington, Seattle, WA
 Hopkins Marine Station, Stanford University, Pacific Grove, CA
 California State University, Long Beach, CA
 Sitka Sound Science Center, Sitka, AK (Public Lecture)
- 2013 University of California, Irvine, CA
 Scripps Institution of Oceanography, La Jolla, CA
 University of Connecticut, Groton, CT
- 2012 California Polytechnic State University, San Luis Obispo, CA
 California State University, Northridge, CA
- 2011 University of California, Berkeley, CA
 University of Rhode Island, RI
 Northeastern University Marine Science Center, Nahant, MA (Public Lecture)

- University of Massachusetts, Boston, MA
 Green Mountain College, Poultney, VT
 University of Massachusetts, Amherst, MA
 National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
 2010 Brown University, Providence, RI
 Petersburg Marine Mammal Center, Petersburg, AK (Public Lecture)
 2009 Moss Landing Marine Laboratories, Moss Landing, CA
 Canada Aquatic Invasive Species Network Annual Meeting (Keynote Lecture; Williams SL & Sorte CJB)
 2000 Oregon Shores Coastal Coalition and CoastWatch Conference, Newport, OR

PRESS

Links for older shows available on <www.cascadesorte.org>

- 2016 VOXM Nightline. Live Talk Radio with host Jonathan Richler. 30 August. Starts at 16:00.
 <<http://vocm.com/shows/night-line-with-jonathan-richler/>>
- 2016 Canadian Broadcasting Corporation Radio Interview. “Blue mussels on the decline in the Gulf of Maine”.
 <<http://www.cbc.ca/beta/news/canada/new-brunswick/programs/shift/blue-mussels-on-the-decline-in-the-gulf-of-maine-1.3740389>>. 29 August.
- 2016 Maine Public Radio. Interview with Patty Wight. “Blue mussels in decline in Gulf of Maine”. 29 August.
 <<http://news.mpbm.net/post/blue-mussels-decline-gulf-maine#stream/0>>
- 2016 Associated Press. Patrick Whittle “Mussels disappearing from New England waters, scientists say”. 28 August. Article ran in >25 news outlets including *ABC News, Boston Globe, Chicago Tribune, La Gran Epoca, Las Vegas Sun, Los Angeles Daily News, Manila Bulletin, New York Times, SF Gate, Wall Street Journal*
- 2016 Christian Science Monitor. 02 August. “Why are spiny damselfish going into permanent ‘night mode’?” Commented as climate change expert. <<http://www.csmonitor.com/Science/2016/0802/Why-are-spiny-damselfish-going-into-permanent-night-mode>>
- 2016 Hakai Magazine. “Testing climate change in a tide pool”. 07 January.
 <<https://www.hakaimagazine.com/article-short/testing-climate-change-tide-pool>>.
- 2015 Portland Press Herald, Portland, ME. “Where have Maine’s mussels gone?”
 <<http://www.pressherald.com/2015/08/30/where-have-maines-mussels-gone/>>. 30 August.
- 2015 Maine Public Radio. “While Maine mussel fishermen struggle, farmers ‘continue to grow’”. Aired 20 Feb.
 <<http://news.mpbm.net/post/while-maine-mussel-fishermen-struggle-farmers-continue-grow>>.
- 2015 The Forecaster, Falmouth, Maine. 22 January. “Mussel weakness: Massive decline in Casco Bay poses questions about once-thriving population”. <<http://www.theforecaster.net/mussel-weakness-massive-decline-in-casco-bay-poses-questions-about-once-thriving-population/>>.
- 2014 KCAW Alaska Public Radio, Sitka. Nature Show #58: “Matt Bracken and Cascade Sorte”. 20 July.
 <<http://www.kcaw.org/wp-content/uploads/Programming/Sunday%20130%20to%20230.mp3>>
- 2014 KCAW Alaska Public Radio, Sitka. Morning Edition, Live. 09 July. “Science and tide pools”.
 <<http://www.kcaw.org/2014/07/09/science-and-tide-pools/>>
- 2010 KFSK Alaska Public Radio, Petersburg. 28 June. “Researcher calls for attention to invasive marine species”.
- 2010 ABC Ch. 7 (KGO-TV) San Francisco, CA featuring an interview with my advisor about my dissertation work. 27 September. “Invasive species impact NorCal’s marine life”.

CONTRIBUTED PAPERS (* denotes student advisees; oral presentations unless specified otherwise)

- 2018 **Sorte CJB**, Bernatchez G, *Pandori LLM, Silbiger NJ, *Wallingford PD. Warming tolerances and predicted distributional shifts differ by species in a diverse intertidal mussel guild. Society for Integrative and Comparative Biology, San Francisco, CA.
- 2018 *Pandori LLM, **Sorte CJB**. The weakest link: vulnerability across life stages of marine invertebrates under climate warming. Society for Integrative and Comparative Biology, San Francisco, CA.
- 2018 *Monuki KS, **Sorte CJB**, Bracken MES. Mussel condition across environmental stress gradients in New Zealand. Poster, Society for Integrative and Comparative Biology, San Francisco, CA.

- 2017 **Sorte CJB**, Pandori LLM, Cai S, Davis KA. Coping with climate change: linking dispersal dynamics to persistence of benthic marine species with complex life cycles. Western Society of Naturalists, Pasadena, CA.
- 2017 *Mahanes SA, Pandori LLM, **Sorte CJB**. Bad neighbors: evaluating the impact of range shifting species on native ecosystems. Poster, Western Society of Naturalists, Pasadena, CA.
- 2017 *Wallingford PD, *Singh R, Bernatchez G, *Cruz E, *Monuki K, **Sorte CJB**. Predicting community effects of range expansions in southern California intertidal communities. Poster, Western Society of Naturalists, Pasadena, CA.
- 2017 *Wallingford PD, **Sorte CJB**. Shifting foundations: changes in predator-prey relationships across a thermal gradient. Poster, Ecological Society of America, Portland, OR.
- 2017 **Sorte CJB**, *Pandori LLM, Cai S, Davis KA. Predicting persistence of marine invertebrates: flow patterns influence poleward dispersal and tolerance phenotypes. Poster, American Society of Limnology and Oceanography, Honolulu, HI.
- 2017 *Wallingford PD, **Sorte CJB**. Shifting keystones: changes in predator-prey relationships along a thermal gradient. American Society of Limnology and Oceanography, Honolulu, HI.
- 2016 **Sorte CJB**, *Davidson VE, *Franklin MC, Benes KM, Doellman MM, Etter RJ, Hannigan RE, Lubchenco J, Menge BA. Mussel declines and intertidal community shifts over the past 40 years in the Gulf of Maine. Western Society of Naturalists, Monterey, CA.
- 2016 Silbiger N, **Sorte CJB**. “pH”ingerprinting west coast tide pools: physical versus biological drivers of coastal biogeochemistry. Western Society of Naturalists, Monterey, CA.
- 2016 *Pandori LLM, **Sorte CJB**. The weakest link: vulnerability across life stages of marine invertebrates under climate warming. Poster, Western Society of Naturalists, Monterey, CA.
- 2016 *Monuki K, *Pandori LLM, Smith JR, **Sorte CJB**. Going with the flow: changes in mussel recruitment and population size over time. Poster, Western Society of Naturalists, Monterey, CA.
- 2016 *Wallingford PD, **Sorte CJB**. Climate change and shifting foundations: predator-prey relationships across local and latitudinal gradients. Poster, Western Society of Naturalists, Monterey, CA.
- 2016 *Pandori LLM, *Medina A, **Sorte CJB**. Age matters: how life-stage specific microhabitats may influence the responses of intertidal invertebrates to climate change. Invited Seminar, Orange County Marine Protected Area Council Tidepool Docent Training, Dana Point, CA.
- 2016 **Sorte CJB**, *Pandori LLM, Cai S, Davis KA. Coping with climate change: can variable flow patterns facilitate poleward range shifts of marine species inhabiting equatorward current systems? Species on the Move, Hobart, Tasmania.
- 2016 **Sorte CJB**, *Pandori LLM, Cai S, Davis KA. Coping with climate change: an integrated assessment of range shift potential and physiological tolerances of intertidal mussels. Society for Integrative and Comparative Biology, Portland, OR.
- 2016 *Pandori LLM, **Sorte CJB**. Ontogenetic variation in microhabitats and environmental conditions of intertidal invertebrates. Society for Integrative and Comparative Biology, Portland, OR.
- 2016 *Medina A, *Pandori LLM, **Sorte CJB**. Reproductive maturity of *Mytilus californianus* across an intertidal gradient. UCI Undergraduate Research Symposium, Irvine, CA.
- 2015 *Wallingford PD, **Sorte CJB**. Changes in predator and prey distributions across vertical gradients. Poster, Western Society of Naturalists, Sacramento, CA.
- 2015 *Pandori LLM, **Sorte CJB**. Ontogenetic variation in microhabitats and environmental conditions of intertidal invertebrates. Western Society of Naturalists, Sacramento, CA.
- 2015 Bradley BA, Early R, **Sorte CJB**. Space to invade? Comparative range infilling and potential range of invasive and native plants. International Conference on the Ecology and Management of Alien Plant Invasions (EMAPi), Hilo, HI.
- 2014 **Sorte CJB**, Bracken MES. Interactions between multiple aspects of climate change: a field manipulation of CO₂ and temperature in tide pool communities. Western Society of Naturalists, Tacoma, WA.
- 2014 *Pandori LL, **Sorte CJB**, Maurel SA, Davis KA. Mussel recruitment and thermotolerance across an upwelling cycle. Western Society of Naturalists, Tacoma, WA.
- 2014 *Davidson VE, **Sorte CJB**, *Franklin M, Doellman M, Benes K, Gannett A, *Pandori L, Hepner M. Historical comparisons indicate declines in mussel abundances in the Gulf of Maine. Poster, Western Society of Naturalists, Tacoma, WA.
- 2014 *Franklin MC, Doellman M, **Sorte C**. Blue mussel (*Mytilus edulis*) abundance in the Gulf of Maine: a historical approach to determining population trajectories. Poster, American Society of Limnology and Oceanography, Honolulu, HI.

- 2013 **Sorte CJB**, Etter R, *Spackman R, Boyle E, Hannigan R. Predicting population persistence: can blue mussels redistribute poleward under climate change? Poster, International Biogeography Society, Miami, FL.
- 2013 Bradley BA, Early RI, **Sorte CJB**. How far from equilibrium are non-native plants? Implication for modeling invasion risk. Poster, International Biogeography Society, Miami, FL.
- 2012 **Sorte CJB**, Ibáñez I, Blumenthal DM, Molinari NA, Miller LP, Grosholz ED, Diez JM, D'Antonio CM, Olden JD, Jones SJ, Dukes JS. Poised to prosper: do demographic outcomes favor non-native species in a changing climate? Ecological Society of America, Portland, OR.
- 2011 **Sorte CJB**, White JW. Climate change and context-dependent competitive outcomes alter community composition. Ecological Society of America, Austin, TX.
- 2010 **Sorte CJB**, *Cockrell MA. Predicting the impacts of ocean warming on a California fouling community using stage-structured population modeling. International Invasive Sea Squirrels Conference, Woods Hole, MA.
- 2010 **Sorte CJB**, Williams SL. Ocean warming increases threat of invasive species in a marine fouling community. Benthic Ecology Meeting, Wilmington, NC.
- 2010 *Cockrell MA, **Sorte CJB**, Bracken MES. Stage-structured population modeling as a tool for predicting species' responses to climate change. Benthic Ecology Meeting, Wilmington, NC.
- 2010 *Zerebecki RA, **Sorte CJB**. Are invasive species more temperature tolerant than natives? An evaluation of current hypotheses. Benthic Ecology Meeting, Wilmington, NC.
- 2009 **Sorte CJB**, *Fuller A, Bracken MES. Heat waves and invasive dominance in the Bodega Harbor (California) fouling community. Western Society of Naturalists, Monterey, CA.
- 2009 *Cerdeja JA, **Sorte CJ**, Williams SL. Associations between native and invasive *Caprella* and *Bugula*: epifauna-substratum interactions. Western Society of Naturalists, Monterey, CA.
- 2009 *Cockrell MA, **Sorte CJB**. Stage-structured population modeling for the invasive tunicate *Botrylloides violaceus*: implications for population and community structure in the face of climate change. Western Society of Naturalists, Monterey, CA.
- 2009 *Zerebecki R, **Sorte CJB**. Are invasive species more temperature tolerant than natives? A marine fouling community case study. Western Society of Naturalists, Monterey, CA.
- 2009 **Sorte CJB**, *Fuller A, Bracken MES. Shift in non-native species dominance triggered by a simulated heat wave. Coastal and Estuarine Research Federation, Portland, OR.
- 2009 *Cerdeja JA, **Sorte CJ**, Williams SL. Associations between native and invasive *Caprella* and *Bugula*: epifauna-substratum interactions. Poster, Society for Advancement of Chicanos and Native Americans in Science, Dallas, TX.
- 2009 **Sorte CJB**, Carlton JT, Williams SL. Can climate-driven range expansions be informed by non-native species invasions? Marine Bioinvasions Conference, Portland, OR.
- 2009 **Sorte CJB**, Williams SL. Can climate-driven range expansions be informed by non-native species invasions? Poster, International Biogeography Society, Merida, Mexico.
- 2008 **Sorte CJB**, Williams SL. Predicting impacts of climate change on marine community composition. Western Society of Naturalists, Vancouver, British Columbia, Canada.
- 2008 **Sorte CJB**, Williams SL. Can climate-driven range expansions be informed by non-native species invasions? Benthic Ecology Meeting, Providence, RI.
- 2007 Byrnes JE, Bowles CM, Bracken ME, Gruner DS, Hays C, Ferner M, Nickols KJ, Ram KA, **Sorte CJB**, Williams SL. Combining long-term surveys with structural equation modeling to examine kelp forest food webs. North American Benthological Society, Columbia, SC.
- 2005 **Sorte C**, Grosholz E, Blake R, Christiansen N, Love C, Mahl U. Ecosystem engineering by the invasive *Spartina* hybrid: impacts of above- and below-ground structure on benthic invertebrate communities. Poster, Ecological Society of America, Montreal, Canada.
- 2004 **Sorte CJB**, Hofmann GE. Thermotolerance and heat-shock protein expression in Northeastern Pacific *Nucella* species with different biogeographic ranges. Western Society of Naturalists, Rohnert Park, CA.
- 2004 **Sorte CJ**, Hofmann GE. Changes in latitudes, changes in aptitudes: stress and condition across intertidal species' ranges. Poster, Ecological Society of America, Portland, OR.
- 2002 **Sorte CJ**, Hofmann GE. Factors determining intertidal whelk distributions: does temperature play a role? Western Society of Naturalists, Monterey, CA.
- 2002 **Sorte CJ**, Hofmann GE. Heat-shock protein expression in *Nucella* species of the Northeast Pacific. Poster, Society for Integrative and Comparative Biology, Anaheim, CA.

2000 **Sorte CJ**, Halpin PM, Hofmann GE, Menge BA, Lubchenco J. Spatial and temporal variability of heat-shock protein expression in *Mytilus californianus*. Poster, Western Society of Naturalists, Portland, OR.

MENTORING & PUBLIC OUTREACH

2014 Co-coordinator, Sitka Sound Science Center day camp for 3rd-5th graders, Sitka, AK
 2014 Developed climate change demonstration, Estuary Awareness Day, Back Bay Sci. Center, Newport Beach
 2010 Mentor, high school student internship (2 months in the lab), Marblehead, MA
 2010 Mentor, Ambrose Elementary School Mentor Program (group leader of 3 students), Winchester, MA
 2008-10 Tidepool presentations, YMCA Pre-kindergarten Program, Marblehead, MA
 2007-10 Public Open House demonstrations, Marine Science Center, Northeastern University
 2007 Mentor, high school student's career project, Sebastopol, CA
 2002 Undergraduate Mentoring in Environmental Biology Program, Arizona State University
 2002 Presentations (2) on careers in marine biology, elementary and high schools, AZ
 2001 Group Leader, South Shore Elementary School Girls' Science Club (3 students), Albany, OR
 2001 Mentor, high school students (2) in Job Shadow Program, Corvallis, OR
 2000-01 Co-leader, Zoology Club field trips to Friday Harbor Labs, Oregon State University

SERVICE

UCI Department of Ecology & Evolutionary Biology

2017-present Member, Strategic Plan Committee
 2017-present Member, Committee to Revise EcoEvo Undergraduate Major
 2017-present Member, Undergraduate Honors Committee
 2017-present Member, Development Committee
 2014-present Member, Graduate Assistance in Areas of National Need (GAANN) Steering Committee
 2016-17 Member, Search Committee, WATER Cluster Hire

UCI

2014-present UCI Representative, Orange County Marine Protected Area Council
 2016-17 Member & UCI OCEANS Representative, Organizing Committee, H2O Headwaters to Oceans Conference (spring 2017 at UCI)
 2016-17 Co-organizer, UCI pre-tenure faculty Science Writing Retreat (2016 UC Anza Borrego Reserve, 6 participants; 2017 Catalina Island USC Wrigley Institute, 5 participants)
 2016 Participant, CLEANR and UCI OCEANS Roundtable on Assessing California's Marine Protected Area Network: Managing Regulatory Fragmentation, Shifting Baselines, and Uncertainty
 2015-16 Panelist for 3 student information sessions: graduate school, REU programs, and work-life balance
 2014 Presentation, CEO Executive Roundtable, Crystal Cove State Park, Newport Beach, CA

University of California

2017 Reviewer, UC Presidents Postdoctoral Fellowship Program
 2016 Panelist, UC-Mexus Grant Review Committee for dissertation research projects, UC Riverside

Scholarly

Journal Article Reviews

Aquatic Conservation, Biological Conservation, Biological Invasions, Biology Letters, BioScience, Conservation Biology, Deep Sea Research, Diversity & Distributions, Ecology, Ecology Letters, Ecosphere, Estuaries and Coasts, Functional Ecology, Geoscience and Remote Sensing Letters, Global Change Biology, Global Ecology & Biogeography, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Biogeography, Journal of Ecology, Journal of Experimental Marine Biology & Ecology, Marine Biology, Marine Ecology Progress Series, Nature Climate Change, Oecologia, Oikos, PLoS ONE, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society B, Progress in Oceanography, Reviews in Fish Biology, Scientific Reports

Proposal Reviews

National Science Foundation, Natural Environment Research Council, BiodivERsA, ANR (French National Research Agency), Ser Cymru (Wales) National Research Network

Other Reviews

NSF/NASA DISCCRS (DISsertation initiative for the advancement of Climate Change ReSearch) Fellowships, Graduate Women in Science Fellowships, International Biogeography Society Travel Grants, UC-Davis Graduate Group in Ecology Admission Applications

- 2017-present Associate Editor, *Diversity & Distributions*
- 2017-present Associate Editor, *Frontiers of Biogeography*
- 2016-present Associate Editor, *NeoBiota* (open access journal on biological invasions)
- 2015-present Associate Editor, *Global Ecology and Biogeography*
- 2017 Organizer, Organized Oral Session, Ecological Society of America, Portland, OR
- 2014-2016 Member, Steering Committee, “Species on the move” conference, Tasmania, Australia
- 2013 Organizer, Student Paper Competition, International Biogeography Society
- 2009-2013 Member, Early Career Biogeographers Committee, International Biogeography Soc.
- 2011 Biology and Biotechnology Career Panelist, Endicott College, Beverly, MA
- 2010 Participant, Rapid Assessment Survey of Marine Invasive Species from Maine to Rhode Island
- 2000,04,05,17 Judge, Student Paper Competitions, Western Society of Naturalists Annual Meeting

PROFESSIONAL SOCIETY AFFILIATIONS (*past 10 years*)

Ecological Society of America, International Biogeography Society, Sigma Xi Scientific Research Society, Society for Integrative and Comparative Biology, Western Society of Naturalists