

CASCADE J. B. SORTE
Curriculum vitae, updated July 2024

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ACADEMIC PREPARATION & POSITIONS

2024-present Professor, Ecology and Evolutionary Biology, University of California, Irvine
2019-2024 Associate Professor, Ecology and Evolutionary Biology, University of California, Irvine
2014-2019 Assistant Professor, Ecology and Evolutionary Biology, University of California, Irvine
2010-2013 Postdoctoral Research Associate, School for the Environment, University of Massachusetts, Boston
2005-2010 Ph.D., Ecology, University of California, Davis
2001-2003 M.A., Ecology, Evolution, and Marine Biology, University of California, Santa Barbara
1995-1999 B.A., Biology, Whitman College

HONORS & AWARDS

2021 George Mercer Award, Ecological Society of America
2021 Deans Honoree Teaching Award, School of Biological Sciences, UCI
2019 Faculty Mentor of the Month, Undergraduate Research Opportunities Program, UCI
2017-2021 Early Career Fellow, Ecological Society of America
2014 Scientist in Residency Fellow, Sitka Sound Science Center, AK
2009 American Association of University Women American Dissertation Fellow (\$20,000)
2009 College of Biological Sciences Dean's Circle Mentorship Award (\$5,000), UC-Davis
2008 Coastal Environmental Quality Initiatives Fellow, Ocean Protection Council (\$30,000)
2001-2002 Arizona State University Graduate Academic Scholar (\$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

GRANTS

Current

Sorte C (PI) (12/01/21-11/30/24) Predicting impacts of coastal species redistribution in a changing climate. National Science Foundation Biological Oceanography OCE-2124438 (\$492,382).

Sorte C (Project Director) (10/01/21-9/30/24) Graduate Assistance in Areas of National Need. Department of Education P200A210001(\$913,140 to UCI EEB Department).

Past

Vilà M (PI/Coordinator, EBD-CSIC, Spain), Gallien L (Co-PI, CNRS, France), Jeschke J (Co-PI, Leibniz Inst/Freie U, Germany), Comín F (Co-PI, IPE-CSIC, Spain), **Sorte C (Co-PI, Lead USA PI)**, Bacher S (Co-PI, U Fribourg, Switzerland), Bradley B (Co-PI, UMass-Amherst) (5/01/19-4/30/24) Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services (InvasiBES). Belmont Forum - Biodiversa (\$90,000 to UCI; 968,679 euros total).

Sorte C (PI), Bracken M (Co-PI), Miller L (Co-PI, SDSU), Kroeker K (Co-PI, UCSC) (4/01/18-3/31/22) Collaborative Research: Effects of multiple aspects of climate change on marine biodiversity and ecosystem functioning. National Science Foundation Biological Oceanography OCE-1756173 (\$475,916 to UCI; \$667,777 total).

Raimondi P (PI, UCSC), Bracken M (Co-PI, UCI), Smith J (Co-PI, Cal Poly Pomona), Burnaford J (Co-PI, CSU Fullerton), Delemarre E (Co-PI, LiMPETS), **Sorte C (Co-PI, UCI)**, Caselle J (Co-PI, UCSB), Gaddam R (Co-PI, UCSC) (5/24/19-11/30/22) Assessment of rocky intertidal habitats for the California marine protected area monitoring program. California Sea Grant / Ocean Protection Council (\$52,921 to UCI).

Sorte C (PI/Fellow), Aguilar-Roca N (Co-PI), Pratt J (Co-PI) (2018-2019) Using the SWIM (Science Writing Integrated Mentoring) Program to increase effectiveness of a Course-based Undergraduate Research Experience (CURE). Development Fellowship, CUREnet (\$1,000). *Supports assessment of SWIM program.*

- Sorte C** (2017-2018) Science Writing Integrated Mentoring (SWIM) Program: Increasing Confidence and Effectiveness of UDW (Upper Division Writing) in the Sciences. Campus Writing Center Writing Pedagogy Grant, UC-Irvine (\$2,000). *Supports graduate students as writing mentors in a course-integrated program.*
- Sorte C (PI)**, Bracken M (Co-PI) (2016-2017) Effects of multiple aspects of climate change on marine biodiversity and ecosystem functioning. 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 (PI), **Sorte C (Co-PI)** (2014-2017) Marine Biology Seawater Laboratory. Small Capital Improvement Program, UC-Irvine (\$200,000). *Funds to renovate seawater lab; matched by \$60K in Sorte start-up funds.*
- Sorte C (PI)**, Etter RJ (Co-PI), Hannigan R (Co-PI) (2013-2016) Are blue mussels declining in the Gulf of Maine?: population trajectories, connectivity, and spatiotemporal variation in reproduction. MIT Massachusetts Sea Grant, National Oceanic and Atmospheric Association (\$145,999).
- Sorte CJB (PI)**, Dukes JS (Co-PI), Lawler JJ (Co-PI) (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).

PUBLICATIONS (^undergraduate, *graduate, and #postdoctoral advisees)

Google scholar profile: <https://scholar.google.com/citations?user=FkbVuScAAAAAJ&hl=en>

- Sorte CJB**, *Beshai RA, Dean LS, Fales RJ, Martin EL, ^Sherzai S (*in press*) Evolution and Invasive Species. *In: Encyclopedia of Evolutionary Biology*, 2nd Edition (Eds: Wolf J, Russo C) Elsevier Ltd, Oxford, UK.
62. Bradley BA, Beaury EM, Gallardo B, Ibáñez I, Jarnevich C, Morelli TL, Sofaer HR, **Sorte CJB**, Vilà M (2024) Observed and potential range shifts of native and non-native species with climate change. *Annual Review of Ecology, Evolution and Systematics*. 55:23-40.
61. Gallardo B, Bacher S, Barbosa AM, Gallien L, González-Moreno P, Martínez-Bolea V, **Sorte CJB**, Vimercati G, Vilà M (2024) Risks posed by invasive alien species to the provision of ecosystem services in Europe. *Nature Communications*. 15:2631. Doi: s41467-024-46818-3
60. *Wright B, Komyakova V, **Sorte CJB**, Tingley MW, Pecl GT (2023) Reciprocal knowledge exchange between climate-driven species redistribution and invasion ecology. *Frontiers of Biogeography*. 15(4). 10.21425/F5FBG60804
59. *Waite HR, *Beshai RA, **Sorte CJB** (2023) On the edge: demography across latitudinal and elevational gradients for range-expanding whelks. *Marine Ecology Progress Series*. doi: 10.3354/meps14349
58. **Sorte CJB**, *Beshai RA, Henry AK, *Mahanes SA, *Rangel RE, *Waite HR. (2023) Interactions between climate change and species invasions in the marine realm. *In: Invasive Species and Global Climate Change*, 2nd Edition (Ed: Ziska LH) CABI Publishing, Oxfordshire, UK (pp. 119-140). [Fully revised since pub. 23]
57. *Mahanes SA, **Sorte CJB**, Bracken MES (2023) The functional effects of a dominant consumer are altered following the loss of a dominant producer. *Ecology & Evolution*. 13(8):e10342 (19pp).
56. **Sorte CJB**, Kroeker K, Miller LP, Bracken MES (2023) Biological modification of coastal pH differs with community composition and by month. *Ecology*. e4113 (8pp).
55. Ibáñez I, Petri L, Barnett DT, Beaury EM, Blumenthal DM, Dukes JS, Corbin JD, Early R, Pearse IS, **Sorte CJB**, Vilà M, Bradley B (2023) Combining local, landscape, and regional geographies to assess plant community vulnerability to invasion impact. *Ecological Applications*. 33:e2821 (15pp).
54. *Beshai RA, ^Truong D, #Henry AK, **Sorte CJB** (2023) Biotic resistance or invasional meltdown? Diversity reduces invasibility but not exotic dominance in southern California epibenthic communities. *Biological Invasions*. 25:533-549.
53. *Mahanes SA, Bracken MES, **Sorte CJB** (2022) Climate change amelioration by marine producers: Does dominance predict impact? *The Biological Bulletin*. 243:299-314.

52. *Rangel RE, **Sorte CJB** (2022) Local-scale thermal history influences metabolic response of marine invertebrates to warming. *Marine Biology*. 169:126 (12pp).
51. Vimercati G, Probert AF, Volery L, Bernardo-Madrid R, Bertolino S, Céspedes V, Essl F, Evans T, Gallardo B, Gallien L, Gonzalez-Moreno P, Grange M, Hui C, Jeschke JJ, Katsanevakis S, Kühn I, Kumschick S, Pergl J, Pyšek P, Rieseberg L, Robinson TB, Saul W-C, **Sorte CJB**, Vilà M, Wilson JR, Bacher S (2022) The EICAT+ framework enables classification of positive impacts of alien taxa on native biodiversity. *PLOS Biology*. 20(8): e3001729.
50. Lopez BE, Allen JM, Dukes JS, Lenoir J, Vilà M, Blumenthal DM, Beaury EM, Fusco EJ, Laginhas BB, Morelli TL, O'Neill M, **Sorte CJB**, Maceda-Veiga A, Whitlock R, Bradley BA (2022) Global environmental changes more frequently offset than intensify detrimental effects of biological invasions. *Proceedings of the National Academy of Sciences USA*. 119(22), e2117389119.
49. #Henry AK, **Sorte CJB** (2022) Impact assessment of coastal marine range shifts to support proactive management. *Frontiers in Ecology and the Environment* 20:161-169.
48. *Wallingford PD, **Sorte CJB** (2022) Dynamic species interactions associated with the range-shifting marine gastropod *Mexacanthina lugubris*. *Oecologia* 198:749-761.
47. Bracken MES, Miller LP, Mastroni SE, Lira SM, **Sorte CJB** (2022) Accounting for variation in temperature and oxygen availability when quantifying marine ecosystem metabolism. *Scientific Reports* 12:1-11.
46. *Waite HR, **Sorte CJB** (2022) Negative carry-over effects on larval thermal tolerances across a natural thermal gradient. *Ecology* 103:e03565.
45. Vilà M, Beaury EM, Blumenthal DM, Bradley BA, Early R, Laginhas BB, Trillo A, Dukes JS, **Sorte CJB**, Ibáñez I. (2021) Understanding the combined impacts of weeds and climate change on crops. *Environmental Research Letters* 16:034043.
44. *Pandori LLM, **Sorte CJB** (2021) Spatial and temporal scales of exposure and sensitivity drive mortality risk patterns across life stages. *Ecosphere*. 12:e03552
43. **Sorte CJB**, Aguilar-Roca NM, #Henry AK, Pratt JD (2020) A hierarchical mentoring program increases confidence and effectiveness in data analysis and interpretation for undergraduate biology students. *CBE—Life Sciences Education* 19:ar23.
42. *Wallingford PD, Morelli TL, Allen JM, Beaury EM, Blumenthal DM, Bradley BA, Dukes JS, Early R, Fusco EJ, Goldberg DE, Ibanez I, Laginhas BB, Vilà M, **Sorte CJB** (2020) Adjusting the lens of invasion biology to focus on the impacts of climate-driven range shifts. *Nature Climate Change* 10:398-405.
41. Gallardo B, Bacher S, Bradley B, Comin FA, Gallien L, Jeschke JM, **Sorte CJB**, Vilà M (2019) InvasiBES: Understanding and managing the impacts of Invasive alien species on Biodiversity and Ecosystem Services. *Neobiota*. 50:109-122. [Peer-reviewed project description]
40. *Wallingford PD, **Sorte CJB** (2019) Predicting predator-prey responses to climate change using community regulation models. *Ecosphere*. 10:e02790.
39. Bradley BA, Laginhas B, Whitlock R, Bates A, Bernatchez G, Diez JM, Allen JM, Early R, Lenoir J, Vilà, **Sorte CJB** (2019) Disentangling the abundance-impact relationship for invasive species. *Proceedings of the National Academy of Sciences USA*. 116:9919-9924. **Selected for ESA George Mercer Award**
38. *Mahanes SA, **Sorte CJB** (2019) Impacts of climate change on marine species invasions in northern hemisphere high-latitude ecosystems. *Frontiers of Biogeography*. 11.1. DOI: 10.21425/F5FBG40527.
37. **Sorte CJB**, Bernatchez G, *Pandori LLM, #Silbiger NJ, Smith AM, *Wallingford PD (2019) Thermal tolerance limits as indicators of current and future intertidal zonation patterns in a diverse mussel guild. *Marine Biology*. 166:6.
36. *Pandori LLM, **Sorte CJB** (2019) The weakest link: sensitivity to climate extremes across life stages of marine invertebrates. *Oikos*. 128:621-629.
35. *Wallingford PD, *Pandori LLM, Bedgood SA, Bracken MES, Elsberry LA, #Henry AK, *Mahanes SA, **Sorte CJB** (2019) A guide to the relationships between marine spatial patterns and ecological processes. *Frontiers of Biogeography*. 10:3-4. [Invited book review]

34. Bracken MES, #Silbiger NJ, Bernatchez G, **Sorte CJB** (2018) Primary producers may ameliorate impacts of daytime CO₂ addition in a coastal marine ecosystem. *Peer J*. 6:e4739.
33. #Silbiger NJ, **Sorte CJB** (2018) Biophysical feedbacks mediate carbonate chemistry in coastal ecosystems across spatiotemporal gradients. *Scientific Reports*. 8:796.
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*. 165:20.
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.
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.
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.
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.
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*. 7:12485.
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.

MANUSCRIPTS IN REVIEW AND IN REVISION (available on request)

- Bradley BA, Evans AE, Vilà M, Barnett DT, Beaury EM, Blumenthal DM, Corbin JD, Dukes JS, Early R, Ibáñez I, Pearse IS, Petri L, Sofaer HR, **Sorte CJB** (in revision) A quantitative classification of the geography of non-native flora in the U.S. *Global Ecology & Biogeography*.
- Buonaiuto D et al. (in revision) Using plant invasions to compare occurrence- and abundance-based calculations of biotic homogenization: are results complementary or contradictory? *Global Ecology & Biogeography*.
- *Chan M, Tsang TPN, Dingle C, Early R, **Sorte CJB**, Bonebrake TC (in revision) Microhabitat coverage but not habitat heterogeneity influences avian species composition in Hong Kong urban parks. *Urban Forestry & Urban Greening*.

- *Rangel RE, Bracken MES, Kroeker K, Miller LP, **Sorte CJB**. (*in revision*) Factorial field manipulation reveals multi-stressor effects on a critical habitat-forming shellfish. *Journal of Experimental Biology*.
- *Waite HR, **Sorte CJB**. (*in review*) Transgenerational effects can be positive but attenuate with extended exposure to climate change. *Aquatic Ecology*.
- Jarić I, ... **Sorte CJB**, ... et al. (*in preparation*) Priority questions in invasion science. For submission to *Ecology Letters*.

PRESS (*Selected articles & interviews. Links for some older shows are at https://cascadesorte.org/?page_id=146*)

- 2024 Spectrum News. Video interview. (*in preparation*)
- 2024 KCAW Alaska Public Radio, Sitka. Morning Edition, Live.
- 2023 Boston Globe. 19 August. “As the Gulf of Maine warms, where are the mussels?” <<https://www.bostonglobe.com/2023/08/19/science/mussels-are-disappearing-from-the-gulf-of-maine-as-the-climate-warms/>>. *Sunday cover article*.
- 2021 Scienceline.org. 15 January. “Spurred by climate change, invasive species threat looms over northeast U.S.” <<https://scienceline.org/2021/01/spurred-by-climate-change-invasive-species-threat-looms-over-northeast-us/>>.
- 2020 Voice of America. 09 October. “Spread of Alien Plant, Animal Species Predicted to Rise Globally by 2050”. <https://www.voanews.com/a/science-health_spread-alien-plant-animal-species-predicted-rise-globally-205/6196938.html>.
- 2019 FiveThirtyEight. 18 November. “Is this fish winning climate change?”. <<https://fivethirtyeight.com/features/its-gettin-hot-in-here-so-be-a-sawtail-fish/>>.
- 2019 Radio Canada. 04 November. Radio interview in French. “Les espèces aquatiques invasives”. <<https://ici.radio-canada.ca/premiere/emissions/les-annees-lumiere/segments/reportage/140501/poisson-invasion-aquatique-fleuve-st-laurent-espece-tanche-moule-carpe-asiatique-roseau-richelieu-gobie>>.
- 2018 Environmental Monitor. 26 February. “Marine vegetation could serve as a buffer against increasingly acidic oceans”. <<https://www.fondriest.com/news/marine-vegetation-serve-buffer-increasingly-acidic-oceans.htm>>.
- 2018 Orange County Register (cover article). 23 February. “A hunt for the invasive dark unicorn snail shows UCI students how climate change is altering Crystal Cove tide pools”. <<https://www.ocregister.com/2018/02/23/a-hunt-for-the-invasive-dark-unicorn-snail-shows-uci-students-how-climate-change-is-altering-crystal-cove-tide-pools/>>.
- 2018 Hakai Magazine. “Seaweed and seagrass buffer the acidity of the nearby ocean”. 15 February. <<https://www.hakaimagazine.com/news/seaweed-and-seagrass-buffer-the-acidity-of-the-nearby-ocean>>.
- 2018 Discover Magazine. “Marine life can buffer ocean acidity, study finds”. 16 January. <<http://blogs.discovermagazine.com/science-sushi/2018/01/16/marine-life-can-buffer-ocean-acidity-study-finds/#.W4XZ5ZUU9D9>>
- 2016 Associated Press. Patrick Whittle “Drill, baby, drill? Election reignites offshore-oil debate”. 22 November. Article ran in news outlets including *ABC News*, *New York Times*, *Washington Post*, *Seattle Times*. <<http://www.californiademocrat.com/news/news/story/2016/nov/22/drill-baby-drill-election-reignites-offshore-oil-debate/650048>>.
- 2016 VOCM 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. 29 August. “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>>.
- 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.* <<https://www.boston.com/news/local-news/2016/08/28/mussels-disappearing-from-new-england-waters-scientists-say>>.
- 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”.

INVITED PRESENTATIONS

- 2023 Alaska Invasive Species Partnership Annual Workshop (Keynote Address)
U. Alaska Southeast Natural History Speaker Series, Sitka, AK (Public Talk)
Northeast Regional Invasive Species and Climate Change Symposium (Keynote Address)
- 2022 Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California, Mexico
UC Davis Bodega Marine Lab (Student Invited Speaker)
- 2021 Invasive Species Research Conference of Invasive Species Council of British Columbia (Keynote Address)
Delta Invasive Species Symposium, California
- 2020 Western Society of Naturalists Annual Conference
UC (University of California) Center Sacramento Speaker Series
- 2019 University of Exeter, Penryn, United Kingdom
International Conference on Aquatic Invasive Species, Montreal, Canada (Keynote Address)
Species on the Move Conference, South Africa (Keynote Address)
Scripps Institution of Oceanography, La Jolla, CA
Marine Science Institute, University of Texas, Port Aransas, TX (L. R. Schweppe Endowment Speaker)
- 2018 Northeast Regional Invasive Species & Climate Change Management, Amherst, MA (Symposium Talk)
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 on Aquatic Nuisance Species, San Diego, CA (Keynote Address)
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 World Wetlands Day Symposium, Irvine, CA (Symposium Talk)
Native Nations Protecting Coastal Land and Waters in California, Irvine, CA (Symposium Talk)
Darling Marine Center, University of Maine, Damariscotta, ME
University of California, Merced, CA

- Neobiota International Conference on Biological Invasions, Vianden, Luxembourg (Keynote Address)
 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

CONTRIBUTED PRESENTATIONS – past 5 years

([^]undergraduate, *graduate, and #postdoctoral advisees; oral presentations unless specified)

- 2024 **Sorte C**, *Waite H. Transgenerational effects can be positive but attenuate with extended exposure to climate change. Ecological Society of America. Long Beach, CA.
 2024 [^]Suen KJ, *Beshai R, **Sorte C**. Evaluating whether mussels provide a refuge for prey of a range-shifting predator in southern California. Southern California Academy of Sciences, Orange, CA.
 2024 [^]Ramsey SM, *Beshai RA, **Sorte CJB**. The potential for coexistence between the range expanding dark unicorn whelk and a native southern California whelk species. Southern California Academy of Sciences, Orange, CA.
 2023 *Beshai RA, *Cameron CT, Ladah LB, Lorda J, Bourdeau PE, **Sorte CJB**. Population and community impacts of two range-expanding predators, the whelks *Acanthinucella spirata* and *Mexacanthina lugubris*, along the Pacific Coast. Western Society of Naturalists, Monterey, CA.
 2023 **Sorte C**, Kroeker K, Miller L, Rangel R, Bracken M. Impacts of temperature and CO₂ on rocky shore ecosystems: results of a factorial field experiment. Ecological Society of America. Portland, OR.

- 2023 *Beshai RA, *Cameron CT, Ladah LB, Lorda J, Bourdeau PE, **Sorte CJB**. Population and community impacts of two range-expanding predators, the whelks *Acanthinucella spirata* and *Mexacanthina lugubris*, along the Pacific Coast. Ecological Society of America. Portland, OR. Poster.
- 2023 ^Sherzai S, *Beshai RA, **Sorte CJB**. Assessing the impacts of a range-shifting whelk, *Mexacanthina lugubris*, on its prey species across native and expanded ranges. Southern California Academy of Sciences. Santa Barbara, CA. Poster.
- 2023 ^Lau V, *Rangel R, **Sorte C**. Impacts of ocean acidification on the shell structure of two ecologically important shellfish species, the Pacific Blue Mussel (*Mytilus trossulus*) and the California Mussel (*Mytilus californianus*) from differing latitudes over time. Southern California Academy of Sciences. Santa Barbara, CA. Poster.
- 2022 *Rangel R, Kroeker K, Bracken M, Miller L, **Sorte C**. Climate change impacts on the shell structure of an ecologically important shellfish. Society for Integrative and Comparative Biology. Austin, TX.
- 2022 *Rangel R, Kroeker K, Bracken M, Miller L, **Sorte C**. Climate change impacts on the shell structure of an ecologically important shellfish. American Physiological Society, San Diego, CA. Poster.
- 2022 *Waite H, **Sorte CJB**. A blast from the past: effects of early life stage experiences in a range shifting intertidal snail. Society for Advancement of Chicanos/Hispanics and Native Americans in Science, San Juan, Puerto Rico.
- 2022 **Sorte C**, Kroeker K, Miller L, Rangel R, Bracken M. Seasonal variation in community composition affects biological modification of coastal pH. Western Society of Naturalists. Oxnard, CA.
- 2022 Allen A, *Mahanes S, *Cameron C, **Sorte C**. Impacts of the invasive alga *Sargassum muticum* and native surfgrass *Phyllospadix* on species richness in southern California. Western Society of Naturalists. Oxnard, CA.
- 2022 *Waite H, **Sorte CJB**. Preparing the next generation for climate change: parental effects on larval thermal tolerance in the California mussel (*Mytilus californianus*). OCMFAC Coastal Marine Research Symposium.
- 2022 *Beshai RA, ^Truong D, #Henry AK, **Sorte CJB**. Biotic resistance or invasional meltdown? Diversity reduces invasibility but not exotic dominance in southern California epibenthic communities. Neobiota International Conference on Bioinvasions, Tartu, Estonia.
- 2022 *Wallingford PD, **Sorte CJB**. Dynamic species interactions associated with the range-shifting gastropod *Mexacanthina lugubris*. Ecological Society of America, Montreal, Canada.
- 2022 *Mahanes SA, Bracken MES, **Sorte CJB**. Do dominant marine producers ameliorate climate change? Joint Aquatic Sciences Meeting, Grand Rapids, MI.
- 2022 *Wallingford PD, **Sorte CJB**. Dynamic species interactions associated with the range-shifting gastropod *Mexacanthina lugubris*. American Society of Limnology and Oceanography.
- 2021 *Beshai RA, ^Truong DA, #Henry AK, **Sorte CJB**. Invasional meltdown in southern California marine communities: could greater community diversity facilitate invader dominance? Poster, Invasive Species Council of British Columbia Invasive Species Research Conference. Virtual.
- 2021 *Beshai RA, ^Truong DA, #Henry AK, **Sorte CJB**. Invasional meltdown in southern California marine communities: could greater community diversity facilitate invader dominance? Poster, Ecological Society of America. Virtual.
- 2021 *Mahanes SA, Bracken MES, **Sorte CJB**. Multiple roles of a dominant seaweed in driving environmental conditions and community structure. Ecological Society of America. Virtual.
- 2020 Bracken MES, Kroeker KJ, Miller LP, **Sorte CJB**. Realistic field manipulations to simulate future climate conditions modify seaweed photosynthetic performance. Western Society of Naturalists. Virtual.
- 2020 *Mahanes SA, Bracken MES, **Sorte CJB**. The effects of habitat-forming alga on environmental conditions and community composition. Western Society of Naturalists. Virtual.
- 2020 *Waite H, **Sorte CJB**. Preparing the next generation for climate change: parental effects on larval thermal tolerance in the California mussel (*Mytilus californianus*). Western Society of Naturalists. Virtual.
- 2020 *Rangel R, **Sorte CJB**. Staying local: small-scale environmental history influences the metabolic response of marine invertebrates to increased temperature. Society for Advancement of Chicanos/Hispanics and Native Americans in Science. Virtual.

- 2020 *Waite H, **Sorte CJB**. Preparing the next generation for climate change: parental effects on larval thermal tolerance in the California mussel (*Mytilus californianus*). Society for Advancement of Chicanos/Hispanics and Native Americans in Science. Virtual.
- 2020 *Wallingford PD, **Sorte CJB**. Impacts of the Predatory Whelk *Mexacanthina lugubris*: A Dark Unicorn in Southern California. Poster, Ocean Sciences Meeting, San Diego, CA.
- 2020 **Sorte CJB**, Aguilar-Roca NM, Henry AK, Pratt JD. A hierarchical mentoring program increases confidence and effectiveness in critical thinking skills of undergraduate biology students. Poster, Society for the Advancement of Biology Education Research (SABER) West Meeting, Irvine, CA. *Presented by A. Henry*.
- 2020 *Rangel R, **Sorte CJB**. Staying local: small-scale metabolic response of marine invertebrates to increased temperature. Society for Integrative and Comparative Biology. Austin, TX.
- 2019 #Henry AK, **Sorte CJB**. Risk assessment of ecological impacts by range-expanding marine species in North America. Western Society of Naturalists, Ensenada, Mexico.
- 2019 *Waite HR, **Sorte CJB**. Does the apple not fall from the tree? Parental effects on larval thermal tolerance in the mussel, *Mytilus trossulus*. Poster, Western Society of Naturalists, Ensenada, Mexico.
- 2019 Morelli TL, *Wallingford PD ... **Sorte CJB**. Assessing impacts of climate-driven range shifts through the lens of invasion biology. Species on the Move, Kruger National Park, South Africa.
- 2019 *Wallingford PD, **Sorte CJB**. Impacts of *Mexacanthina lugubris*, the dark unicorn in Southern California intertidal communities. Southern California Academy of Sciences, Northridge, CA.
- 2018 **Sorte CJB**. Following in Susan's footsteps: environmental context and buffering capacity of tide pool primary producers. Western Society of Naturalists, Tacoma, WA.
- 2018 *Mahanes SA, Bracken MES, **Sorte CJB**. Fickle fronds: the effects of a dominant alga on community diversity and composition. Poster, Western Society of Naturalists, Tacoma, WA.
- 2018 *Rangel R, **Sorte CJB**. Local-scale environmental history influences the response of Alaskan tide pool species to increased temperature. Poster, Western Society of Naturalists, Tacoma, WA.
- 2018 *Pandori LLM, **Sorte CJB**. Risky business: vulnerability of California mussels to warming varies across life stages and microhabitats. Western Society of Naturalists, Tacoma, WA.
- 2018 *Truong DA, Henry AK, **Sorte CJB**. Space Invaders! Biotic interaction strength differs by stage of development in the fouling community of Bodega Harbor, California. Poster, Western Society of Naturalists, Tacoma, WA.
- 2018 *Wallingford PD, **Sorte CJB**. Predicting predator-prey responses to climate change using a community regulation model. Western Society of Naturalists, Tacoma, WA.

TEACHING

Instructor

Courses (undergraduate level except for EEB Department Ecology Group)

- Spring 2023 Bio Sci E120: Marine Biology (253 students), co-taught with M. Bracken
- Fall 2022 Bio Sci 186L: Population & Community Ecology Lab (22 students)
- Spring 2022 Bio Sci 186L: Population & Community Ecology Lab (21 students)
- Spring 2022 Bio Sci E120: Marine Biology (188 students), co-taught with M. Bracken
- Spring 2021 Bio Sci 186L: Population & Community Ecology Lab (22 students)
- Spring 2021 Bio Sci E120: Marine Biology (136 students), co-taught with M. Bracken
- Spring 2020 Bio Sci E120: Marine Biology (164 students)
- Spring 2020 Eco Evo 221: Plant Ecology (Ecology Group) (7 students)
- Spring 2019 Bio Sci E120: Marine Biology (191 students), co-taught with M. Bracken
- Fall 2018 Bio Sci 186L: Population & Community Ecology Lab (30 students)
- Fall 2018 Eco Evo 201: Ecol & Evo Biol (EEB Department Seminar) (7 students)
- Spring 2018 UNI STU3: Science of Cli-Fi (15 students)
- Spring 2018 Bio Sci E120: Marine Biology (189 students), 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 (163 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: Plant Ecology (Ecology Group) (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
2023-24		2	3	3
2022-23		2	4	4
2021-22		3	4	4
2020-21		2	2	2
2019-20		2	3	3
2018-19		3	5	4
2017-18		3	3	4
2016-17		1	2	3
2015-16		2	2	3
2014-15		1	2	3

Guest Instructor & Academic Teaching Consulting

2021-22 & 2024	Informational interviews & beta testing for NSF-funded “AI Science Communication” project developing a K-12 chat bot to teach about climate change in oceans
2021	Bio 3436: Global Skills, Field Course, University of Exeter, UK (virtual)
Winter 2019,2020	ESS 148: Marine Ecosystems (Lecture & Discussion; ~30 students)
Summer 2018	Ridge to Reef UCI Training Program Summer Institute (1/2 day Field Course; 25 students)
Winter 2015,2016,2018	ESS 60B: Local Environmental Issues (Lecture & Discussion; ~35 students)

Published & Publicized Teaching Materials (^undergraduate and *graduate advisees)

2024	*Beshai R, Sherzai S, ^Ramsey S, ^Suen K, ^Magee A, Sorte C . PK-12 Resource Content Sheet on invasive species (information sheet for educators). Environmental and Climate Change Literacy Projects.
2020	Population and Community Ecology Materials (below) reviewed by The Cutting Edge and included in Exemplary Teaching Activities collection of the Teach the Earth Collection of NAGT (National Association of Geoscience Teachers) at < https://serc.carleton.edu/teachearth/exemplary.html >.
2018	Sorte CJB , Wallingford PD. Population and Community Ecology Teaching Materials for a Course-Based Undergraduate Research Experience. CUREnet < https://serc.carleton.edu/curennet/collection/207507.html >

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

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**

- 2017-21 Amy Henry (currently lecturer, UCI Masters in Conservation and Restoration Science Program)
 2015-17 Nyssa Silbiger (currently faculty at University of Hawaii, Manoa)

Graduate Students

- 2024-present Kyle Suen, M.S. student
 2020-present Ryan Beshai, Ph.D. student
 2022-2023 Courtney Cameron, Ph.D. student (decided not to pursue a Ph.D. and changed career path)
 2018-2023 Racine Rangel, Ph.D. (awarded >\$17K in grants at UCI, currently President's Postdoc at UCSC)
 2018-2023 Heidi Waite, Ph.D. (awarded \$3,8K in grants at UCI, now science officer at Ocean Science Trust)
 2017-2022 Samuel Mahanes, Ph.D. (currently Policy Fellow, Calif. Council on Science & Tech.)
 2015-2020 Piper Wallingford, Ph.D. (awarded ~\$18K in grants while at UCI, currently scientist at TNC)
 2014-2019 Lauren Pandori, Ph.D (awarded ~\$14K in grants while at UCI, currently scientist with NPS)

Graduate Student Committees

- 2024-present Abby Simpson, Ph.D. committee, EEB, UCI
 2022-present Namfon Booncharoen (Tangkwa), Ph.D. committee, National Cheng Kung University, Taiwan
 2022-2023 Bailey McCann, M.S., Cal Poly, Humboldt
 2020-2023 Phoebe Dawkins, Ph.D., Ecology & Evolutionary Biology (EEB), UC-Irvine (UCI)
 2021-2022 Ha Nguyen, Ph.D., Education, UCI
 2020-2021 Brigitte Wright, M.S., University of Tasmania, Australia
 2017-2021 Nalleli Carvajal, Ph.D., EEB, UCI
 2017-2021 Kendra Walters, Ph.D., EEB, UCI
 2016-2022 Ashley Peterson, Ph.D., EEB, UCI
 2015-2019 Alyssa Frederick, Ph.D., EEB, UCI
 2015-2019 Laura Elsberry, Ph.D., EEB, UCI
 2015-2018 Chan Wai Shan Melanie (Chocolate), M.Phil., University of Hong Kong
 2017 Shukai Cai, M.S., Civil & Environmental Engineering, UCI
 2016 Kevin Rothstein-Kightly, M.S., EEB, UCI

Ph.D. Qualifying Exam Committees (in addition to those listed above)

- 2023 Jun Yu, Earth System Science, UCI
 2023 Keira Monuki, Center for Population Biology, UC-Davis
 2020 Yi Liu, Earth System Science, UCI
 2019 Cynthia Rodriguez, Ecology & Evolutionary Biology, UCI
 2017 Johann Lopez, Earth System Science, UCI
 2015 Kylla Benes, Ecology & Evolutionary Biology, UCI
 2014 Maggie Simon, UC-Los Angeles

Graduate Thesis External Examiner

- 2024 Wenjie Wu, Ph.D., University of Auckland, New Zealand
 2022 Adriana Rebolledo Navarro, Ph.D., Monash University, Australia
 2019 Marlena Janine Ledet, Ph.D., University of New South Wales, Australia
 2019 Ella Morran, M.Sc., Stellenbosch University, South Africa

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

- 2009 Marcy Cockrell (Ph.D. U. South Florida, currently Biol. Admin., FL Dept. Agric. Cons. Serv. Aquaculture)
 2009 Robyn Zerebecki (Ph.D. Northeastern University, currently Assistant Professor, Univ. Louisiana Lafayette)
 2008 Adam Fuller (Ph.D. U. Alabama; currently Hatchery Director, Feather River College, Quincy, CA)

Current Undergraduate Research Students

Undergraduate Research: Bio Sci 199 students

(UROP = Undergraduate Research Opportunities Program; SURP = Summer Undergraduate Research Program)

- 2024-present Kelsey Djan
 2024-present Alexa Magee (awarded SURP funding)

Past Undergraduate Students

- 2023-24 Soffia Ramsey (awarded UROP funding)
 2023-24 Kyle Suen (completed Honors thesis & Excellence in Research; awarded UROP funding)
 2023-24 Edward Nguyen
 2023 James Kim
 2023 Jonathan Reyes
 2021-23 Safa Sherzai (awarded UROP & SURP funding)
 2021-23 Vanessa Lau (awarded UROP & SURP funding; completed Excellence in Research)
 2021-22 Caitlyn Cortes (awarded UROP & SURP funding)
 2021-22 Abigail Gonzalez (awarded UROP funding)
 2020-21 Katherine Phan (awarded UROP funding)
 2020-21 Caroline Hoeft (completed Honors Thesis)
 2020 Stephany Lira
 2019-20 Abigail Vara
 2019-20 Jolene Viramontes (awarded UROP funding)
 2019 J. Connor Basile (awarded SURP & UROP funding)
 2018-19 Haley Heesch (awarded UROP funding)
 2017-19 Danny Truong (awarded SURP & UROP funding; presented at 2018 & 2019 Undergraduate Research Symposium and 2018 Western Society of Naturalists Conference; UROP Video Challenge #1 Judge's Choice Award)
 2019 Joseph Spaziano
 2018-19 Deida Lopez (awarded UROP funding; presented at 2019 Undergraduate Research Symposium)
 2017-18 Eduardo Cruz (awarded UROP funding; presented at 2018 Undergraduate Research Symposium)
 2017-18 Ritika Singh (awarded SURP & UROP funding; presented at 2018 Undergraduate Research Symposium)
 2016-17 Mackenzie Peich
 2016 Samer Khan
 2015-16 Savannah Todd
 2015-16 Alyssa Medina (thesis published in undergraduate research journal; presented at 2016 Undergraduate Research Symposium)
 2015 Kunheng Cai
 2014-15 Betzabe Alvizo

Summer Research Mentoring

- UC-Irvine Summer Undergraduate Research Program (SURP): Safa Sherzai (2022), Vanessa Lau (2022), Caitlyn Cortes (2021), J. Connor Basile (2019), Danny Truong (2018), Ritika Singh (2017)
 Whitman College Summer Internship Program: Leah Samuels (2020), Grant Gallaher (2019; completed undergraduate senior thesis), Victoria Davidson (2014; completed undergraduate senior thesis)
 UC-Irvine HBCU (Historically Black Colleges & Universities) 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

Research Interns

Keira Monuki (2016-18; presented at 2016 WSN & 2018 SICB conferences), Gabriella McGann (2015), Michael Hutson (2011), Jordan Tower (2011), Sarah Trieweler (2011), Rachel Wong (2010), Melanie Evans (2006)

MENTORING & PUBLIC SERVICE

- 2024 Guide, tide pool walk, Sitka Sound Science Center, Sitka, AK
- 2024 Developed outreach materials on impacts of climate change on coastal ecosystems presented at a table during Earth Week on campus, UC Irvine
- 2022 Online interview with biology class at Birmingham Charter High School, Van Nuys, CA
- 2020-21 Member, Environmental Advisory Council, Tammy Kim, Vice-Mayor, Irvine, CA
- 2019 Taught middle school summer camp activities focused on ocean acidification & ecosystem processes, Sitka Sound Science Center, Sitka, AK
- 2019 Supervised development of active learning exercises presented to 2 high school classes by technicians on our NSF-funded research project, Sitka Sound Science Center, Sitka, AK
- 2018 Marine Biology Career Presentation, Rancho San Joaquin Middle School, Irvine, CA
- 2017 Pen pal for elementary student, Adopt-a-scientist Program, Irvine, CA
- 2017 Volunteer, Children's Water Education Festival, Irvine, CA
- 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 Tide pool 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

PROFESSIONAL SERVICE

UCI Department of Ecology & Evolutionary Biology

- Faculty mentoring committees: Celia Symons, Tobin Hammer (chair), Ana Vedrenne
- 2021- Chair, Graduate Assistance in Areas of National Need (GAANN) Steering Committee
 - 2017-18 Member, Strategic Plan Committee
 - 2017-18 Member, Committee to Revise EcoEvo Undergraduate Major
 - 2014-18 Member, Graduate Assistance in Areas of National Need (GAANN) Steering Committee
 - 2016-17 Member, Search Committee, WATER Cluster Hire
 - 2016 Panelist, Work-Life Balance, EEB Brown Bag Lunch Seminar
 - 2015 Panelist, NSF REU (Research Experiences for Undergraduate) Program, UCI Ecology Club
 - 2015 Reviewer, Graduate Comparative Physiology Course Paper

UCI School of Biological Sciences

- 2020-21 EEB representative, Subcommittee on Integrative Biology Major
- 2018 Member, Search Committee, Exercise Neuroscience (search delayed)
- 2017-21 Member, Undergraduate Honors Committee (1 of 2 EEB representatives)
- 2016-19 Co-organizer, UCI pre-tenure faculty Science Writing Retreat (2016 & 2019 UC Anza Borrego Reserve; 2017-2019 Catalina Island USC Wrigley Institute; ~6 participants)
- 2016 Panelist, Graduate School for Bio Sci students, Student Outreach and Retention (SOAR) Center
- 2015 Reviewer, Excellence in Research Paper, UCI Biological Sciences

UCI

- 2022-present UCI representative on the Natural Communities Coalition

- 2014-present Acting co-chair (term: 2021-23), Research committee chair (2020-21), Inclusiveness committee member (2020-present), Research committee member (2014-present) & Representative (2014-present), Orange County Marine Protected Area Council
- 2020-22 Graduate Council representative on the Academic Program Review Board of the Academic Senate
- 2020-22 BioSci representative on the Graduate Council of the Academic Senate
- 2018 Panelist, Oceans Session, UCI Climate Solutions Summit
- 2016-17 Member & UCI OCEANS Representative, Organizing Committee, H2O Headwaters to Oceans Conference (spring 2017 at UCI)
- 2016 Participant, CLEANR and UCI OCEANS Roundtable on Assessing California's Marine Protected Area Network: Managing Regulatory Fragmentation, Shifting Baselines, and Uncertainty
- 2014 Drafted memo re: UCI Marine Research at Kerckhoff Marine Lab on behalf of UCI OCEANS
- 2014 Presentation, CEO Executive Roundtable, Crystal Cove State Park, Newport Beach, CA

University of California

- 2018 Reviewer, UC Innovative Learning Technology Initiative (*reviewed syllabus for online course*)
- 2017 Reviewer, UC Presidents Postdoctoral Fellowship Program
- 2016 Panelist, UC-Mexus Grant Review Committee for dissertation research projects, UC Riverside

Scholarly (dates for reviews since 9/2023)

Journal Article Reviewer: *Aquatic Conservation, Biological Conservation, Biological Invasions, Biology Letters, BioScience, Conservation Biology, Conservation Letters, Deep Sea Research, Diversity & Distributions, Ecological Monographs, 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 (11/2023), 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 (2/2024), Progress in Oceanography, Reviews in Fish Biology, Science, Scientific Reports, Trends in Ecology & Evolution (10/2023)*

Proposal Reviews: *National Science Foundation (12/2023), BiodivERsA, Agence Nationale de la Recherche (France), FONDECYT Chilean National Science and Technology Commission, Royal Society Te Aparangi Marsden Fund (New Zealand), Natural Environment Research Council (British), Research Grants Council of Hong Kong, Ser Cymru National Research Network (Wales)*

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, *Frontiers of Biogeography*
- 2016-present Associate Editor, *NeoBiota (MSa:10/23-2/24, Oyster 7/24-)*
- 2024 Panelist, LTER (Long Term Ecological Research), National Science Foundation Division of Environmental Biology
- 2022 Guest Editor, *Marine Ecology Progress Series* special issue on range shifts (handled 3 papers)
- 2021 Panelist, National Science Foundation Biological Oceanography Program
- 2019-2022 Panelist, American Association of University Women (AAUW) American Fellowship Program
- 2019 Deputy Editor, *Frontiers of Biogeography* (stepped down when on sabbatical)
- 2017-2018 Associate Editor, *Diversity & Distributions* (total manuscripts handled: 15)
- 2015-2019 Associate Editor, *Global Ecology and Biogeography* (total manuscripts handled: 19)
- 2017 Organizer, Organized Oral Session, Ecological Society of America, Portland, OR
- 2017 Panelist, Academic Job Market Discussion, International Biogeography Society, Tucson, AZ
- 2014-2016 Member, Steering Committee, 1st "Species on the Move" Conference, Tasmania, Australia
- 2016 Assessor, Safina Center Report on the blue mussel fishery in ME, MA, RI & NY states
- 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 DEVELOPMENT

- 2022-2024 Working Group Participant, “Invasive Plant Impacts”, John Wesley Powell Center for Analysis and Synthesis, USGS, Fort Collins, CO (2 week-long meetings per year)
- 2022 Co-organizer, Workshop on Novel Species in Seagrass ecosystems at ISBW14 (International Seagrass Biology Workshop)
- 2019-2021 Working Group Participant, “The Other Side of Invasibility: Vulnerability of Recipient Ecosystems”, National Center for Ecological Analysis and Synthesis, Santa Barbara, CA (2 week-long meetings per year)
- 2019 Invited Participant, NSF funded “Invasion Biology Rules of Life” workshop
- 2019 R Workshop, UCI Teaching and Learning Resource Center
- 2018 Getting Students to Read & Preparing to Write a “W” Course Workshops, UCI
- 2018 Active Learning Institute Certification, Division of Teaching Excellence & Innovation, UCI
- 2018 Selected Participant, Andina workshop “Species range extensions & local adaptation”, Argentina
- 2017 Introduction to Network Analysis Workshop, International Biogeography Society, Tucson, AZ
- 2016 Bioinformatics Workshop, Species on the Move Conference, Hobart, Tasmania
- 2011 Selected Participant, NSF/NASA DISCCRS (Climate Change Research) Symposium
- 2011 Selected Participant, NSF ADVANCE workshop, Rice University
- 2010 Structural Equation Modeling (1 week course), Sven Loven Centre for Marine Sci. Tjarno, Sweden

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