Travis Courtney

Assistant Professor, University of Puerto Rico Mayagüez Email: travis.courtney@upr.edu, Web: www.traviscourtney.com, Twitter: @tacourtne

Appointments and professional experience:

2021–present	Assistant Professor, University of Puerto Rico Mayagüez
2019–2021	Postdoctoral Scholar, Scripps Institution of Oceanography
2015-2019	National Science Foundation Graduate Research Fellow, Scripps Institution of Oceanography
2013-2014	Visiting Scientist, University of North Carolina at Chapel Hill
2013-2014	Laboratory Technician, Northeastern University
2010-2013	Undergraduate Research Assistant, University of North Carolina at Chapel Hill

Education:

2019 Ph.D. Oceanography, Scripps Institution of Oceanography

Thesis: "Quantifying the rates and drivers of coral and coral reef calcification in the Anthropocene"

Advisor: Dr. Andreas J. Andersson

2013 B.S. Geological + Environmental Sciences, University of North Carolina at Chapel Hill

Thesis: "Impact of atmospheric pCO_2 and seawater temperature on the stable isotopic composition ($\partial^{18}O_2$,

 ∂^{13} O) of echinoid calcite (*Echinometra viridis*)"

Research advisor: Dr. Justin B. Ries

Successful research grants and fellowships:

2022	Puerto Rico Department of Natural and Environmental Resources	\$1,324,698
2022	·	. , ,
	"Development and Implementation of a Water Quality Monitoring Project in Shallow Coral	Reel Aleas
	Around Puerto Rico, and the Implementation of a 'BCG' Model"	
	PI: Dr. Juan José Cruz Motta, Dr. Ernesto Weil, Dr. Travis Courtney	
2022	EcoEléctrica	\$94,925
	Quantifying net ecosystem metabolism and biogeochemical variability of seagrasses in Sout	hwest Puerto
	Rico	
	PI: Dr. Travis Courtney, Co-PI: Catherine Hernandez Rodriguez [MS student in lab of PI Court	tney]
2019	National Oceanographic and Atmospheric Administration	\$249,055
	"Quantifying coral reef net calcification capacity and vulnerability in the context of ocean ac	cidification"
	PI: Dr. Andreas Andersson [Travis Courtney contributed significantly to proposal]	
2018	National Science Foundation Biological Oceanography	\$265,466
	"Drivers of coral and reef-scale calcification in the North Atlantic"	
	PI: Dr. Andreas Andersson [Travis Courtney contributed significantly to proposal]	
2016	Shepard Foundation Student Fieldwork	\$1,840
	"Seasonal variability of net coral reef calcification in Kāne'ohe Bay, Hawai'i"	
	PI: Travis Courtney	
2016	Shepard Foundation Student Fieldwork	\$1,985
	"Impacts of widespread bleaching on net coral reef calcification in Kāne'ohe Bay, Hawai'i"	
	PI: Travis Courtney	
2015	National Science Foundation Graduate Research Fellowship Program	\$138,000
	PI: Travis Courtney	. ,
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Honors, scholarships, and awards:

2020	Chancellor's Dissertation Medal, University of California San Diego
2019	Graduate Student Excellence Research Award, Scripps Institution of Oceanography
2019	Travel Grant, University of California San Diego Graduate Student Association
2018	Graduate Student Excellence Travel Award, Scripps Institution of Oceanography
2018	Outstanding Mentor Award, Scripps Graduate Peer Mentor Program

2016	Outstanding Presentation Award, Scripps Student Symposium
2016	Scripps Fellowship, Scripps Institution of Oceanography
2015	Cody Fellowship, Scripps Institution of Oceanography
2015	Graduate Research Fellowship, National Science Foundation
2013	Graduated with Highest Honors and Distinction, UNC at Chapel Hill
2013	Environmental Excellence Award, UNC at Chapel Hill Institute for the Environment
2013	Carolina Research Scholar, UNC at Chapel Hill Office of Undergraduate Research
2013	1 st Place Undergraduate Poster Award, Anadarko Research Symposium
2012	Roy L. Ingram Geology Fund Scholarship, UNC at Chapel Hill Dept. of Geological Science
2012	Judson Mead Geologic Field Station Scholarship, Indiana University at Bloomington
2011	Harrington Scholar, UNC at Chapel Hill
2009	Wrightsville Beach Longboard Association Scholarship

Peer-reviewed publications:

- 27. Rintoul M, Courtney T, Dohner J, Giddings S, Inoha K, Kekuewa S, Mitarai S, Monismith S, Pezner A, Andersson A. 2022. The Effects of Light Intensity and Flow Speed on Biogeochemical Variability within a Fringing Coral Reef in Onna-son, Okinawa, Japan. Journal of Geophysical Research Oceans. https://doi.org/10.1029/2021JC018369
- 26. Kekuewa SAH, **Courtney TA**, Cyronak T, Andersson AJ. 2022. Seasonal nearshore ocean acidification and deoxygenation in the Southern California Bight. Scientific Reports. https://doi.org/10.1038/s41598-022-21831-y
- 25. Toth LT, **Courtney TA**, Colella MA, Kupfner Johnson SA, Ruzicka RR. 2022. The past, present, and future of coral reef growth in the Florida Keys. Global Change Biology. https://doi.org/10.1111/gcb.16295
- 24. Courtney TA, Barkley HC, Chan S, Couch CS, Kindinger TL, Oliver TA, Kriegman DJ, Andersson AJ. 2022.
 Rapid assessments of Pacific Ocean net coral reef carbonate budgets and net calcification following the 2014-2017 global coral bleaching event. Limnology and Oceanography.

 https://doi.org/10.1002/lno.12159
- 23. Elahi R, Edmunds PJ, Gates RD, Kuffner IB, Barnes BB, Chollett I, **Courtney TA**, Guest JR, Lenz EA, Toth LT, Viehman TS, Williams ID. 2022. Scale dependence of coral reef oases and their environmental correlates. Ecological Applications. https://doi.org/10.1002/eap.2651
- Bresnahan P, Cyronak T, Brewin RJW, Andersson A, Wirth T, Martz T, **Courtney T**, Hui N, Kastner R, Stern A, McGrain T, Reinicke D, Richard J, Hammond K, Waters S. 2022. A High-Tech, Low-Cost, Internet of Things Surfboard Fin for Coastal Citizen Science, Outreach, and Education. Continental Shelf Research. https://doi.org/10.1016/j.csr.2022.104748
- 21. Courtney TA, Cyronak T, Griffin AJ, Andersson AJ. 2021. Implications of salinity normalization of seawater total alkalinity in coral reef metabolism studies. PLOS ONE. https://doi.org/10.1371/journal.pone.0261210
- 20. Kekuewa SAH, Courtney TA, Cyronak T, Kindeberg T, Eyre BD, Stoltenberg L, Andersson AJ. 2021. Temporal and Spatial Variabilities of Chemical and Physical Parameters on the Heron Island Coral Reef Platform. Aquatic Geochemistry. https://doi.org/10.1007/s10498-021-09400-7
- 19. **Courtney TA**, Guest JR, Edwards AJ, Dizon RM. 2021. Linear extension, skeletal density, and calcification rates of the blue coral *Heliopora coerulea*. Coral Reefs. https://doi.org/10.1007/s00338-021-02137-3

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- 18. Pezner AK, Courtney TA, Page HN, Giddings SN, Beatty CM, DeGrandpre MD, Andersson AJ. 2021. Lateral, Vertical, and Temporal Variability of Seawater Carbonate Chemistry at Hog Reef, Bermuda. Frontiers in Marine Science. https://doi.org/10.3389/fmars.2021.562267
- 17. **Courtney TA**, Kindeberg T, Andersson AJ. 2020. Coral calcification responses to the North Atlantic Oscillation and coral bleaching in Bermuda. PLOS ONE. https://doi.org/10.1371/journal.pone.0241854
- 16. Kindeberg T, Bates NR, Courtney TA, Cyronak T, Griffin A, Mackenzie FT, Paulsen M-L, Andersson AJ. 2020. Porewater Carbonate Chemistry Dynamics in a Temperate and a Subtropical Seagrass System. Aquatic Geochemistry. https://doi.org/10.1007/s10498-020-09378-8
- 15. Courtney TA, Barnes BB, Chollett I, Elahi R, Gross K, Guest JR, Kuffner IB, Lenz EA, Nelson HR, Rogers CS, Toth LT, Andersson AJ. 2020. Disturbances drive changes in coral community assemblages and coral calcification capacity. Ecosphere. https://doi.org/10.1002/ecs2.3066
- 14. Cyronak T, Takeshita Y, **Courtney TA**, DeCarlo EH, Eyre BD, Kline DI, Martz T, Page H, Price NN, Smith J, Stoltenberg L, Tresguerres M, Andersson AJ. 2020. Diel temperature and pH variability scale with depth across diverse coral reef habitats. Limnology and Oceanography Letters. https://doi.org/10.1002/lol2.10129
- Baumann JH, Ries JB, Rippe JP, Courtney TA, Aichelman HE, Westfield I, Castillo KD. 2019. Nearshore coral growth declining on the Mesoamerican Barrier Reef System. Global Change Biology, 25: 3932–3945. https://doi.org/10.1111/gcb.14784
- 12. **Courtney TA** & Andersson AJ. 2019. Evaluating measurements of coral reef net ecosystem calcification rates. Coral Reefs, 38(5):997–1006. https://doi.org/10.1007/s00338-019-01828-2
- Page HN, Courtney TA, De Carlo EH, Howins NM, Koester I, Andersson AJ. 2019. Spatiotemporal variability in seawater carbon chemistry for a coral reef flat in Kāne'ohe Bay, Hawai'i. Limnology and Oceanography, 63:913–934. https://doi.org/10.1002/lno.11084
- 10. Guest JR, Edmunds PJ, Gates RD, Kuffner IB, Andersson AJ, Barnes BB, Chollett I, **Courtney TA**, Elahi R, Gross K, Lenz EA, Mitarai S, Mumby PJ, Nelson HR, Parker BA, Putnam HM, Rogers CS, Toth LT. 2018. A framework for identifying and characterising coral reef "oases" against a backdrop of degradation. Journal of Applied Ecology, 00:1-11. https://doi.org/10.1111/1365-2664.13179
- 9. Courtney TA, De Carlo EH, Page HN, Bahr KD, Barro A, Howins N, Tabata R, Terlouw G, Rodgers KS, Andersson AJ. 2018. Recovery of reef-scale calcification following a bleaching event in Kāne'ohe Bay, Hawai'i. Limnology & Oceanography Letters, 3:1–9. https://doi.org/10.1002/lol2.10056
- 8. Courtney TA, Lebrato M, Bates NR, Collins A, de Putron SJ, Garley R, Johnson, R, Molinero JC, Noyes TJ, Sabine CL, Andersson AJ. 2017. Environmental controls on modern scleractinian coral and reef-scale calcification. Science Advances, 3(11), p.e1701356. https://doi.org/10.1126/sciadv.1701356
- 7. Page HN, Courtney TA, Collins A, De Carlo EH, Andersson AJ. 2017. Net community metabolism and seawater carbonate chemistry scale non-intuitively with coral cover. Frontiers in Marine Science, 4:161. https://doi.org/10.3389/fmars.2017.00161
- 6. **Courtney TA**, Andersson AJ, Bates NB, Collins A, Cyronak T, de Putron SJ, Eyre BD, Garley R, Hochberg EJ, Johnson R, Musielewicz S, Noyes T, Sabine CL, Sutton AJ, Toncin J, Tribollet A. 2016. Comparing Chemistry

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and Census-based Estimates of Net Ecosystem Calcification on a Rim Reef in Bermuda. Frontiers in Marine Science, 3:181. https://doi.org/10.3389/fmars.2016.00181

- 5. Baumann JH, Townsend JE, **Courtney TA**, Aichelman HE, Davies SW, Lima FP, Castillo KD. 2016. Temperature Regimes Impact Coral Assemblages along Environmental Gradients on Lagoonal Reefs in Belize. PLoS ONE, 11(9): e0162098. https://doi.org/10.1371/journal.pone.0162098
- 4. Aichelman HE, Townsend JE, **Courtney TA**, Baumann JH, Davies SW, Castillo KD. 2016. Heterotrophy mitigates the response of the temperate coral *Oculina arbuscula* to temperature stress. Ecology and Evolution, 6(18): 6758-6769. https://doi.org/10.1002/ece3.2399
- 3. Horvath KM, Castillo KD, Armstrong P, Westfield IT, **Courtney T**, Ries JB. 2016. Next-century ocean acidification and warming both reduce calcification rate, but only acidification alters skeletal morphology of reef-building coral *Siderastrea siderea*. Scientific Reports, 6:29613. https://doi.org/10.1038/srep29613
- 2. **Courtney T** and Ries JB. 2015. Impact of atmospheric pCO₂, seawater temperature, and calcification rate on the δ^{18} O and δ^{13} C composition of echinoid calcite (*Echinometra viridis*). Chemical Geology, 411: 228-239. https://doi.org/10.1016/j.chemgeo.2015.06.030
- 1. **Courtney T**, Ries JB, Westfield I. 2013. Predicted end of 21st century CO₂-induced ocean acidification decreases calcification rates in the tropical urchin *Echinometra viridis*. Journal of Experimental Marine Biology and Ecology, 440: 169-175. https://doi.org/10.1016/j.jembe.2012.11.013

Computational tools and datasets:

- 3. **Courtney TA**, Andersson AJ (2021) Calcification Dissolution Potential Tool for Excel: Version 1. Zenodo. https://doi.org/10.5281/zenodo.7051628
- 2. Chan S, Courtney TA, Andersson AJ, Kriegman DJ. "CoralNet now estimates carbonate production rates." CoralNet, 30 July 2021, https://coralnet.ucsd.edu/blog/coralnet-now-estimates-carbonate-production-rates/
- 1. Courtney TA, Chan S, Lange ID, Perry CT, Kriegman DJ, Andersson AJ (2021) Area-normalized scaling of ReefBudget calcification, macrobioerosion, and microbioerosion rates for use with CoralNet Version 1.0. Zenodo. https://doi.org/10.5281/zenodo.5140477

Conference presentations and invited talks:

- 20. **Courtney TA**. 2022. Blue carbon uptake and buffering against ocean acidification by seagrasses. EcoEléctrica invited talk.
- 19. **Courtney TA**. 2022. Benthic metabolism and buffering against ocean acidification. University of Puerto Rico Mayagüez Purdue University Blue Initiative Partnership Meeting.
- 18. **Courtney TA** & Andersson AJ. 2021. Tools to assess coral reef calcification. NOAA Ocean Acidification Working Group Meeting.
- 17. **Courtney TA**. 2021. Coral reef calcification under rapid environmental change. AECiMA Outreach Talks: University of Puerto Rico, Mayagüez.
- 16. **Courtney TA**. 2021. Coral reef metabolism and biogeochemistry under rapid environmental change. University of Puerto Rico, Mayagüez.

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- 15. **Courtney TA**. 2021. Rapid estimates of coral reef calcification. Guest presentation for SIO 119 Undergraduate Course.
- 14. **Courtney TA**. 2020. Disturbances drive changes in coral community assemblages and coral calcification capacity (and the development of tools to assess reef-scale calcification under OA). NOAA Ocean Acidification Community Meeting.
- 13. Courtney TA. 2019. Coral calcification and climate change. Scripps Education Association.
- 12. **Courtney TA** and Andersson AJ. 2019. Evaluating measurements of ecosystem-scale coral reef calcification under global environmental change. ASLO Aquatic Sciences Meeting.
- 11. **Courtney TA**. 2018. The science (and value) of coral reef calcification. San Diego State Environmental Business Society.
- 10. **Courtney TA**. 2018. Environmental controls on coral and reef-scale calcification. National Sun Yat-sen University lunch seminar.
- 9. **Courtney TA**, Lebrato M, Bates NR, Collins A, de Putron SJ, Garley R, Johnson, R, Molinero JC, Noyes TJ, Sabine CL, Andersson AJ. 2018. New insights into the drivers of coral and reef-scale calcification from Bermuda. Ocean Sciences Meeting.
- 8. Courtney TA. 2017. Environmental controls on coral and reef-scale calcification. San Diego Coral Club.
- 7. Courtney TA, Andersson AJ, De Carlo EH, Page HN, Koester I, Terlouw G, Tabata R, Bahr KD, Rodgers KS. 2017. Coral bleaching impacts on reef-scale net calcification and net community production in Kāne'ohe Bay, HI. ASLO Ocean Sciences Meeting.
- 6. **Courtney TA** and Andersson AJ. 2016. Seasonal patterns in calcium carbonate production of a Bermuda coral reef. Scripps Student Symposium.
- 5. **Courtney TA**, Andersson AJ, Cyronak T, Noyes T, Bates NR, Collins A, de Putron S, Garley R, Hochberg EJ, Johnson R. 2016. Comparing chemistry and census-based estimates of net ecosystem calcification on a rim reef in Bermuda. 13th International Coral Reef Symposium.
- 4. **Courtney T**, Baumann J, Foguel AD, Horvath K, Westfield I, Castillo KD, Ries JB. 2014. Characterizing 21st century growth trends of the scleractinian coral *Siderastrea siderea* throughout the Belize barrier reef and atoll system. Benthic Ecology Meeting.
- 3. Courtney T, Ries JB, Westfield I. 2013. Impact of atmospheric pCO₂ and seawater temperature on calcification rate and stable isotopic composition (δ^{18} O, δ^{13} C) of echinoid calcite (*Echinometra viridis*). UNC at Chapel Hill Anadarko Research Symposium.
- 2. **Courtney T**, Ries JB, Westfield I. 2012. *Echinometra viridis* exhibits seasonal response in calcification rates to predicted end of 21st century CO₂-induced ocean acidification. Geological Society of America Fall Meeting.
- 1. **Courtney T**, Ries JB, Westfield I. 2012. Effects of warming and CO₂-induced acidification on the tropical urchin *Echinometra viridis*. UNC at Chapel Hill Department of Marine Sciences Seminar Series.

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Fieldwork experience:

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2019	Okinawa, Japan: Chemistry surveys, instrument deployments, and lab experiments
2019	Taiping Island, Taiwan (lead): Chemistry surveys, instrument deployments, and benthic surveys
2018	Bermuda (lead): MAPCO2 buoy servicing
2018	Dongsha Atoll, Taiwan: Chemistry surveys, porewaters, instrument deployments, and coral coring
2017	Bermuda: MAPCO2 buoy servicing, seawater chemistry surveys, and instrument deployments
2017-2021	La Jolla Bight, California: Chemistry surveys and instrument deployments
2017-2018	Mission Bay, California: Chemistry surveys, porewaters, and instrument deployments
2017	Kāne'ohe Bay, Hawai'i (lead): Chemistry surveys
2016	Kāne'ohe Bay, Hawai'i: Chemistry surveys, porewaters, and instrument deployments
2016	Bermuda: MAPCO2 buoy servicing and coral coring
2016	Kāne'ohe Bay, Hawai'i: Chemistry surveys, benthic surveys, and mesocosm experiments
2014	Belize Barrier Reef System: Coral reef community benthic surveys
2014	Southern Outer Banks, North Carolina: Coral sample collection for lab experiments
2013	Southern Outer Banks, North Carolina: Benthic habitat surveys
2012	Belize Barrier Reef System: Coral coring

Teaching experience:

2022 Fall	Instructor: Marine Pollution, University of Puerto Rico Mayagüez
2022 Spring	Instructor: Chemical Oceanography, University of Puerto Rico Mayagüez
2022 Spring	Instructor: Chemical Oceanography Data Analysis Laboratory, University of Puerto Rico Mayagüez
2021 Fall	Instructor: Marine Pollution, University of Puerto Rico Mayagüez
2021 Fall	Instructor: Professional Ethics in Marine Sciences, University of Puerto Rico Mayagüez
2021	Virtual Teacher Certificate: University of California Irvine
2021	Guest lecture: Ocean Briefs Feedback and Discussion for University of Montana Story Lab
2020	Certificate of Completion: Introduction to College Teaching
2020	Guest lecture: "Disturbances and coral reef calcification" for NSF REU
2020	Guest lecture: "The chemistry (and physics) of quantifying net coral reef calcification" for SIO 119
2019	Guest lecture: "Marine Chemistry Basics" for SIO Master of Advanced Studies
2018	Instructor: SIO 90 Perspectives on Ocean Science
2018	Guest lecture: "Paleoclimatology Lab" for SIO Master of Advanced Studies (with Dr. Art Miller)
2013	Summer Education Intern: NC Aquarium at Pine Knoll Shores
2013	Teaching Assistant: GEOL 101L Introductory Geology Lab, UNC

Working groups, workshops, and field courses: 2022 Will coral reefs become built by calcifying sea

2022	Will coral reefs become built by calcifying seaweed in the future?, French Embassy in New Zealand
2017	Local-scale coral reef resilience under global-scale ocean change, USGS Powell Center
2017	Coral In Situ MEtabolism (CISME) workshop, Kāne'ohe Bay, Hawai'i Institute of Marine Biology
2016	Natural History Below the Tides, La Jolla, Scripps Institution of Oceanography
2012	Field Geology in the Rocky Mountains, Montana, Judson Mead Geologic Field Station
2011	Human and Marine Ecology, Galápagos Islands, Universidad San Francisco de Quito
2011	Marine Resources Population Dynamics Workshop, NOAA NMFS
2010	Alternative Fall Break Environmental Trip Co-Leader: UNC APPLES Service Learning

Graduate student committees:

2021–present	Yvette Arias Delfi, UPRM MS in Marine Sciences (Committee Chair)
2021–present	Leira Centeno Mejías, UPRM MS Plan 2 in Marine Sciences (Committee Chair)
2022-present	Catherine Hernández Rodriguez, UPRM MS Plan 2 in Marine Sciences (Committee Chair)
2022-present	Carla Meiías Rivera. UPRM PhD in Marine Sciences (Committee Chair)

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Jose Martinez, UPRM MS in Marine Sciences (Committee Chair)
 Juanita Carballeira Martinez, UPRM MS in Marine Sciences (Committee Chair)
 Juanita Carballeira Martinez, UPRM MS in Marine Sciences (Committee Chair)
 Irais Luquis Ramos, UPRM MS Plan 2 in Marine Sciences (Committee Chair)
 Ana Medina Martinez, UPRM MS in Marine Sciences
 Raymond Infante Rosa, UPRM MS in Marine Sciences
 Omayra Rodriguez Ruiz, UPRM PhD in Marine Sciences

Graduate students mentored:

2022–present	Carla Mejías Rivera, Coral reef particulate organic matter
2022–present	Catherine Hernández Rodriguez, Seagrass carbon cycling
2021–present	Yvette Arias Delfi, Carbon cycling by sea cucumbers
2021–present	Leira Centeno Mejias, Water quality monitoring compliance project
2019-2021	Ariel Pezner, Impacts of hypoxia on coral reefs
2019-2021	Sam Kekuewa, Spatiotemporal variability of seawater chemistry in coastal ecosystems
2018-2019	Thompson Banez, SIO MAS in Marine Biodiversity and Conservation
2017-2018	Emily Parker, SIO MAS in Marine Biodiversity and Conservation
2017-2018	Sam Kekuewa, SIO Graduate Peer Mentor Program
2017-2018	Wiley Wolfe, SIO Graduate Peer Mentor Program

Undergraduate students mentored:

2020-2021	Seawater carbonate chemistry and inshore-offshore gradients of coral reef biogeochemistry (UCSD):
	William Tallentire

Summer 2020 Analysis of coral cover following coral bleaching, NSF Research Experiences for Undergraduates (UCSD):

Audrey Ellias Zach Ferris

2013–2014 Coral skeletal geochemistry, growth rate analysis, and marine aquarium facilities (UNC-CH):

Hannah AichelmanCourtney AndersonMadelyn RoycroftPualani ArmstrongJessica BoultonJoseph TownsendCarissa CampbellKathryn CobleighVallari Eastman

Ashley Foguel Hannah Knight

Job related certifications:

2021–present	virtual Teacher Certificate, University of California Irvine
2020–present	Freediving Instructors International Level 1 Freediver
2018-present	California Boater License
2017–present	Motorboat Operator Certification Course
2011–present	AAUS Science Diver to 60 ft. + nitrox (>175 dives)
2011–present	First Aid, CPR, Emergency O ₂ , and Diving Neurological Assessment Certified
2010-present	North Carolina Boater Education Certified

Diversity, Equity, and Inclusion Trainings

2020	Introduction to College Teaching, UC San Diego Teaching + Learning Commons
2020	Self-Guided Foundational Safe Zone Training, Safe Zone Project
2020	Transfer Ally Training, UC San Diego
2020	Undocu-Ally Training, UC San Diego
2020	Conflict de-escalation Training, Hollaback!

Outreach and service:

2020	SciREN scientist participant, created lesson plan on coral reef growth for K-12 teachers
2020-2021	Mentor for Científico Latino Graduate Student Mentorship Initiative

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2019 University of California delegate to the 25th United Nations Conference of Parties 2019-2021 Letters to a Pre-Scientist participant Panelist for San Diego State University Earth Week Chasing Coral screening 2018 Ocean Acidification lecture for UCSD Retirement Association 2018 2018 Panelist for UCSD Retirement Association Chasing Coral screening Panelist for Citizens Climate Lobby Chasing Coral screening 2017 2017 Panelist for Smartfin + Changing Tides Chasing Coral screening Smartfin project surfboard fin sensors ß—tester 2015-present Scripps Community Outreach Program for Education (SCOPE) volunteer 2015-2020 2015-2016 Rosa Parks Elementary School volunteer tutor 2015-6, 2018 Ocean Discovery Institute volunteer scientist 2014 SciREN scientist participant, created lesson plan on ocean acidification for K-12 teachers 2012 NC Museum Natural Sciences Marine Mammal Day volunteer

Academic service:

2022-Present UPRM Department of Marine Sciences - Graduate Committee
 2021-Present UPRM Department of Marine Sciences - Valuation Committee
 2021-Present UPRM Department of Marine Sciences - Diving Control Board

National Science Foundation Review Panelist
 Sea Grant Puerto Rico Technical Review Panelist

Peer reviewer: Global Change Biology Nature Climate Change Frontiers in Marine Science

Hydrobiologia Limnology and Oceanography PeerJ

Proceedings of the Royal Society B Coral Reefs Geophysical Research Letters

Marine Environmental ResearchBulletin of Marine SciencePLOS ONENational Science FoundationMarine ChemistryMarine EcologyMarine Ecology Progress SeriesOne EarthHawai'i Sea Grant

Palaeogeography, Palaeoclimatology, Palaeoecology Journal of Experimental Marine Biology and Ecology

2019 Session co-chair: Coral Reef Ecosystems, ASLO Aquatic Sciences Meeting

2017–2019 Treasurer + Operations, Scripps Academic Club

Last updated January 2023

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