Richelle Tanner, Ph.D.
richelle.tanner@richelletanner.com
Environmental Science & Policy Program, Chapman University

RESEARCH FIELD: Effects of climate change on human and ecological communities

EDUCATION

Year	Degree
2018	**Ph.D. Integrative Biology**; University of California, Berkeley Climate change effects on thermal tolerance plasticity and population dynamics in the eelgrass sea hare, *Phyllaplysia taylori* (Advisors: Jonathon Stillman & Wayne Sousa)
2015	**B.S. Environmental Studies**; University of Southern California Correlating secondary productivity and habitat composition in a Southern California Marine Protected Area (Advisors: David Ginsburg & Lisa Collins)
2015	**B.M. Jazz Studies**; University of Southern California, Thornton School of Music Piano Performance

PROFESSIONAL EXPERIENCE

Year	Institution	Details
2021-present	Chapman University	Assistant Professor of Environmental Science & Policy, Schmid & Wilkinson Colleges
2020-present	Journal of Zoology	Reviews Editor
2019-present	National Network for Ocean and Climate Change Interpretation	Science Director
2020-2021	University of California, Davis	CA Sea Grant Delta Science Postdoctoral Fellow (Advisor: Anne Todgham)
2018-2020	Washington State University	Postdoctoral Research Associate, School of Biological Sciences (Advisor: Wes Dowd)
2015	Naval Postgraduate School	Naval Research Enterprise Internship Program (Advisor: Wendell Nuss, IDEA Lab)

HONORS & AWARDS

Year	Organization	Description
2015-2018	National Science Foundation	Graduate Research Fellowship ($132K)
2015	University of Southern California	Renaissance Scholar, Discovery Scholar
2013-2015	University of Southern California	Provost Research Fellowship ($4K)
2011-2015	University of Southern California	Presidential Scholar ($100K)
2011-2015	USC Thornton School of Music	Thornton Faculty Fellowship: Stan Kenton Endowed Award ($100K)

GRANTS

Year	Source	Details
2021-2023	Delta Stewardship Council	Delta Science Award, $152K
2021	Company of Biologists	Scientific Meeting Grant, £3,000

2020	Company of Biologists	Scientific Meeting Grant, £2,000
2020-2022	California Sea Grant	Delta Science Fellowship, $230K
2020-2021	Evolving Seas Research Coordination Network	Junior Professional Development Exchange, $2,000
2020	Society for Integrative and Comparative Biology (NSF)	Travel Funding, NSF-funded complementary session, $1,300
2019	Society for Integrative and Comparative Biology (NSF)	Travel Funding, NSF-funded complementary session, $300
2018-2020	NSF	Extreme Science and Engineering Discovery Environment Startup Allocation, $1,500
2016, 2017	Company of Biologists	Research Travel Grant, administered by the Society for Experimental Biology, £500/year
2016-2018	UC Berkeley	Graduate Student Research Funding, Integrative Biology Department, $300/semester
2017	UC Berkeley	Graduate Student Summer Research Funding, Integrative Biology Department, $1,750
2015	UC Berkeley	Student Technology Fund, $5,000
2014	USC	Undergraduate Research, $1,500
2013	USC	Undergraduate Research, $1,500

PUBLICATIONS & PRESENTATIONS

Google Scholar: https://scholar.google.com/citations?user=Jxy-8a8AAAAJ&hl=en

PEER REVIEWED

[S] Mentored student

13. Bonanno A, Ennes M, Hoey J, Moberg E, Nelson SM, Pletcher N, & **Tanner RL** (in press). Empowering hope-based climate change communication techniques for the Gulf of Maine. *Elementa*. **Invited submission** to special issue "Gulf of Maine 2050".
12. Burnett NP, Armstrong EJ, Romero R, Runzel C, & **Tanner RL** (in press). Kelp morphology and herbivory are maintained across latitude despite geographic shift in kelp-wounding herbivores. *Biological Bulletin.*
11. McAlpine-Bellis L[S], Stillman JH, & **Tanner RL** (2021). Acclimation to future climate exposes vulnerability to cold extremes in intertidal sea hares. doi: 10.1093/icab087 **Invited submission** to *Integrative and Comparative Biology*.
10. **Tanner RL**, Grover N, Anderson ML, Crocker KC, Dutta S, Horner AM, Hough LE, Moore TY, Rosen GL, Stack-Whitney K, Summers A (2021). Examining Cultural Structures and Functions in Biology. *Integrative and Comparative Biology.* doi:10.1093/icb/icab140 **Invited submission** to special issue from the NSF Reintegrating Biology Jumpstart Meeting.
9. **Tanner RL** & Collins LE (in press). Using publicly-available long-term climate records in undergraduate interdisciplinary big data curriculum. *Journal of College Science Teaching.*
8. Burnett NP, King EE, Salcedo MK, **Tanner RL**, & Wilsterman K (2020). Conference scheduling undermines diversity efforts. *Nature Ecology & Evolution.* 4: 1283-1284. doi: 10.1038/s41559-020-1276-5

7. **Tanner RL**, Bowie RCK, & Stillman JH (2020). Parental effects on thermal tolerance plasticity under climate change scenarios in the eelgrass sea hare. *Marine Ecology Progress Series.* 634: 199-211. doi: 10.3354/meps13207
6. **Tanner RL**, Obaza AK, & Ginsburg DW (2019). Secondary Production of Kelp Bass *Paralabrax clathratus* in Relation to Coastal Eelgrass *Zostera marina* Habitat in a Southern California Marine Protected Area. *Southern California Academy of Sciences Bulletin*. 118(3): 158-172. doi: 10.3160/0038-3872-118.3.158
5. Wang T[S], **Tanner RL**, Armstrong EJ, Lindberg DR, & Stillman JH (2019). Thermal plasticity in file limpet, *Lottia limatula*, across oceanic to estuarine gradients in habitat temperature. *Aquatic Biology* 28: 113-125. doi: 10.3354/ab00714
4. **Tanner RL** & Dowd WW (2019). Inter-individual variation in responses to environmental variation and environmental change: Integrating across traits and time. *Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology* 238. doi:10.1016/j.cbpa.2019.110577 **Invited submission** to special issue "Mechanisms of biological sensitivity and resistance to a rapidly changing ocean".
3. **Tanner RL**, Faye LE[S], & Stillman JH (2019). Temperature and salinity sensitivity of respiration, grazing, and excretion rates in the estuarine eelgrass sea hare, *Phyllaplysia taylori*. *Marine Biology* 166:109. doi:10.1007/s00227-019-3559-4
2. Armstrong EJ, **Tanner RL**, & Stillman JH (2019). Warm-adaptation is negatively correlated with upper thermal tolerance plasticity in North Eastern Pacific nudibranch mollusks. *Physiological and Biochemical Zoology* 92(4): 430-444. https://doi.org/10.1086/704519 **Featured on issue cover.**
1. **Tanner RL** (2018). Predicting *Phyllaplysia taylori (Anaspidea: Aplysiidae)* presence in Northeastern Pacific estuaries to facilitate grazer community inclusion in eelgrass restoration. *Estuarine, Coastal and Shelf Science* 214: 110-119. doi:10.1016/j.ecss.2018.09.011

IN REVIEW

14. **Tanner RL**, Bowie RCK, Wang-Claypool CY, & Stillman JH (in revision). High thermal tolerance, but not its plasticity are driven by habitat temperature and genotype in an intertidal sea hare. *Functional Ecology.*
15. **Tanner RL**, Gleason LU, & Dowd WW (in revision). Stressful environments unmask inter-individual variation within subnetworks of the mussel transcriptome and proteome. *Molecular Ecology.*
16. Oellermann M, Jolles JW, Ortiz D, Seabra R, Wenzel T, Wilson H, & **Tanner RL** (in review). Harnessing the Benefits of Open Electronics in Science. *Methods in Ecology & Evolution.*

REPORTS

Anderson M, Crocker K, Dutta S, Grover N, Horner A, Hough L, Mangiamele L, Moore T, Rosen G, Stack-Whitney K, Summers A, & **Tanner R** (2020). Knowledge hidden in nuances: from molecules to society. *NSF Reintegrating Biology Jumpstart Meeting*.

Oellermann M, Jolles JW, Ortiz D, Seabra R, Wenzel T, Wilson H, & **Tanner RL** (2021). Harnessing the Benefits of Open Electronics in Science. https://arxiv.org/abs/2106.15852

HANDLING EDITOR *as Reviews Editor at JoZ*

Córdoba-Aguilar, A (in review). Dragon colors: the nature, function, and evolution of Odonata (dragonfly and damselfly) coloration. *Journal of Zoology.*

Schalz, S (retracted). Local Adaptation or Phenotypic Plasticity? A Systematic Review of Common Garden Experiments with Avian Populations. *Journal of Zoology*.

SYMPOSIA ORGANIZED

Year	Event
2022	Society for Integrative and Comparative Biology Annual Meeting, Phoenix, AZ "Open Source Solutions in Experimental Design"
2021	Society for Experimental Biology Annual Meeting, Antwerp, BE ***RESCHEDULED FROM 2020 DUE TO COVID-19** "Science with Impact: Lowering the barriers to science with Open Hardware"
2021	Society for Experimental Biology Annual Meeting, Antwerp, BE ***RESCHEDULED FROM 2020 DUE TO COVID-19** "Open Electronics in Experimental Biology"
2020	NNOCCI, Annual Planning Retreat, virtual "Incorporating Justice, Equity, Diversity, and Inclusion Moving Forward"
2020	NNOCCI, Annual Conference, virtual "Ask a Scientist"
2019	NNOCCI, virtual "Extreme Events Webinar"

INVITED PRESENTATIONS

Year	Event
2021	Department seminar series, Chapman University "Socio-ecological effects of climate on communities"
2020	McGuire Seminar Series, University of Florida ***VIRTUAL DUE TO COVID-19** "The effects of environmental variation on ecosystem function in nearshore habitats"
2020	Barrows Lecture, Project Dragonfly, University of Miami ***VIRTUAL DUE TO COVID-19** "Climate change effects and community-level solutions"
2020	Department seminar series, Biology Program, University of Alaska Southeast ***VIRTUAL DUE TO COVID-19** "How does environmental variation influence physiology in intertidal invertebrates?"
2020	Department seminar series, Chesapeake Biological Laboratory, University of Maryland ***CANCELED DUE TO COVID-19** "Climate change effects: from society to evolutionary biology"
2020	Department seminar series, Biology Department, University of Mississippi "How does environmental variation influence physiology in nearshore invertebrates?"
2019	Department seminar series, Biological Sciences Department, Sacramento State University "How does environmental variation influence physiology in intertidal invertebrates?"
2019	Biolunch, School of Biological Sciences, Washington State University "Inter-individual variation in *Mytilus* mussel physiology"
2019	Science Talk, Portland OR "Social strategies for climate communication" (workshop)
2019	Department seminar series, Department of Biology, Walla Walla University "How does environmental variation influence physiology in intertidal invertebrates?"
2018	Department seminar series, School of Biological Sciences, Washington State University "Thermal tolerance plasticity of the eelgrass sea hare in a changing climate"
2018	Special seminar, Monterey Bay Aquarium, Monterey CA

"The eelgrass sea hare: super slugs in a changing climate"

2018 Department seminar series, Estuary and Ocean Science Center, Department of Biology, San Francisco State University
"Climate change effects on thermal tolerance plasticity and population dynamics in the eelgrass sea hare, *Phyllaplysia taylori*"

2018 Department seminar series, Integrative Biology, UC Berkeley
"Climate change effects on thermal tolerance plasticity and population dynamics in the eelgrass sea hare, *Phyllaplysia taylori*"

2017 Department seminar series, Estuary and Ocean Science Center, Department of Biology, San Francisco State University
"Ask me about climate change: a strategic approach to talking about climate change with the public"

2017 Summer seminar series, Roskilde University, Søeminestationen
"Physiological effects of climate change on a sea slug in San Francisco Bay"

2016 50 years of research on Catalina Island, Southern California Academy of Sciences annual meeting, Los Angeles CA

CONTRIBUTED CONFERENCE PRESENTATIONS (ORAL)

Year	Event
2021	Society for Experimental Biology (SEB), virtual **Tanner R.L.**, Bowie R.C.K., Wang-Claypool C.Y., & Stillman J.H. "High thermal tolerance, but not its plasticity are driven by habitat temperature and genotype in an intertidal sea hare"
2021	Society for Integrative and Comparative Biology (SICB), virtual **Tanner R.L.**, Bowie R.C.K., Wang-Claypool C.Y., & Stillman J.H. "High thermal tolerance, but not its plasticity are driven by habitat temperature and genotype in an intertidal sea hare"
2020	Western Society of Naturalists (WSN), virtual **Tanner R.L.** "Sea slugs safeguard seagrasses: an overview of thermal tolerance in epiphyte grazers"
2020	SICB, Austin TX **Tanner R.L.**, Gleason L.U., & Dowd W.W. "Pathway-dependent patterns of gene and protein variation exposed by thermal stress in the intertidal mussel"
2019	SICB, Tampa FL **Tanner R.L.**, Gleason L.U., & Dowd W.W. "Transcriptomic and proteomic analyses of inter-individual variation among intertidal mussels"
2019	SICB, Tampa FL **Tanner R.L.** "Social change for climate change: communication tactics from the National Network for Ocean and Climate Change Interpretation"
2018	SEB, Florence, Italy **Tanner R.L.** & Stillman J.H. "Parent-specific plasticity in reproduction and development limit population response to climate change in the eelgrass sea hare, *Phyllaplysia taylori"*
2018	SICB, San Francisco CA **Tanner R.L.** & Stillman J.H. "Transgenerational thermal tolerance plasticity may play a role in maintaining seasonal differences between populations of *Phyllaplysia taylori* with climate change"

2017 Western Society of Naturalists (WSN), Pasadena CA
Tanner R.L., Sousa W.P., & Stillman J.H. "Local extirpation of *Phyllaplysia taylori* from San Francisco Bay after heavy winter rains"

2017 SEB, Göthenburg Sweden
Tanner R.L. & Stillman J.H. "The role of developmental plasticity under temperature and pH stress in locally adapted *Phyllaplysia taylori* populations"

2017 SICB, New Orleans LA
Tanner R.L., Armstrong E.J., Sousa W.P., & Stillman, J.H. "Locally adapted *Phyllaplysia taylori* populations in Central California show higher thermal tolerance plasticity potential"

2016 Beyond the Golden Gate Symposium, Tiburon CA
Tanner R.L. "Incorporating the invertebrate grazer, *Phyllaplysia taylori*, into the eelgrass restoration framework: physiological and ecological investigations"

2016 WSN, Monterey CA
Tanner R.L., Sousa W.P., & Stillman J.H. "Acute thermal stress during embryonic development influences hatching success differently based on maternal origin in the sea hare, *Phyllaplysia taylori"*

2016 SICB, Portland OR
Tanner R.L., Obaza A.K., & Ginsburg D.W. "Correlating Secondary Productivity and Habitat Composition of Eelgrass Beds in a Southern California Marine Protected Area"

2014 WSN, Tacoma WA
Tanner R.L., Obaza A.K., & Ginsburg D.W. "Correlating Secondary Productivity and Habitat Composition of Eelgrass Beds in a Southern California Marine Protected Area"

CONTRIBUTED CONFERENCE PRESENTATIONS (POSTER)

Year	Event
2021	SEB, virtual **Tanner R.L.**, LeClair T.A., Langrell J., & Dowd W.W. "Manipulating body temperatures of individual mussels in the laboratory using Arduino-based solutions"
2020	SICB, Austin TX **Tanner R.L.** "Building a network of science communicators for change: strategies from the National Network for Ocean and Climate Change Interpretation"
2018	SEB Special Session (The height, breadth, and depth of physiological plasticity), Florence Italy **Tanner R.L.**, Armstrong E.J., Sousa W.P., & Stillman J.H. "Plasticity of upper critical limits in the eelgrass sea hare, *Phyllaplysia taylori*, not correlated with habitat thermal history"
2014	Southern California Academy of Sciences, Camarillo CA Staniec K.J., **Tanner R.L.**, Obaza, A.K. & Ginsburg D.W. "Correlating Secondary Productivity and Habitat Composition of Eelgrass Beds in a Southern California Marine Protected Area"

*Only first (and first co-)author presentations listed. Eleven co-authored presentations, including those of mentored students, not listed.

TEACHING AND MENTORING

UNIVERSITY COURSES TAUGHT

Term	Course #	Title	Section
Fall 2021	Chapman University, ENV101	Introduction to Environmental Science	Lecture
Fall 2021	Chapman University, ENV329	Environmental Advocacy Through Story	Lecture
Spring 2018	UC Berkeley, IB 103LF (Graduate Student Instructor)	Invertebrate Zoology	Laboratory
Fall 2015	UC Berkeley, IB/EPS/GEOG c82 (Graduate Student Instructor)	Oceans	Discussion (3)
Summer 2014	USC, ENST 320A (Teaching Assistant)	Water and Soil Sustainability	Laboratory

GUEST LECTURES

Term	Course (University)	Topic
Fall 2020	Life at the Extremes (University of Alaska Southeast)	Intertidal invertebrate physiology
Fall 2018	Field Ecology (St. Mary's College)	Sea hare ecophysiology
Spring 2016	Invertebrate Zoology (UC Berkeley)	Nudibranchs and climate change
Fall 2015	Oceans (UC Berkeley)	Marine community ecology

CERTIFICATES

Year	Description	Organization
2018	Certificate in Teaching and Learning in Higher Education	University of California, Berkeley
2018	Expert Facilitator in Science Communication Instruction	National Network for Ocean and Climate Change Interpretation

CURRICULUM DEVELOPMENT

Course curricula development

Pilot Year	Title	Organization (Role)	Target Audience
2021	Climate change communication: using social science research in framing	NNOCCI (Co-lead)	Graduate students
2021	Suisun Food Webs Research Experience for Undergraduates	UC Davis (Lead)	Undergraduate students
2018	Expert Level Facilitator Training Course	NNOCCI (Contributor)	Informal science educators & early career academics
2017	Indirect effects of climate change on intertidal invertebrates	Community Resources for Science (Lead)	3rd grade students
2016 & 2017	National trivia bowl question development (biology focus)	National Ocean Sciences Bowl (Lead)	High school students
2015	Food webs in estuaries	Community Resources	3rd grade students

		for Science (Lead)	
2015	IB/EPS/GEOG c82 discussion materials	UC Berkeley (Contributor)	Undergraduate students

Training workshop development

Pilot Year	Title	Organization (Role)	Target Audience
2018	Science Communication Beginner Workshop	NNOCCI (Lead)	Early career academics

Workshop for teaching newly developed curricula

Pilot Year	Title	Organization (Role)	Target Audience
2017	Environmental Literacy Summer Institute	Lawrence Berkeley Hall of Science (Contributor)	K-5 teachers
2016	Indirect effects of climate change on intertidal invertebrates	San Francisco State University (Contributor)	Middle school teachers

STUDENTS MENTORED

**Resulted in manuscripts for submission to peer-reviewed journals*
[+]Graduate student; all others undergraduate students

Dates	Name	School (Department)	Role	Current Position
2021-pres.	Allison Grygar	UC Davis (Wildlife, Fish, and Conservation Biol.)	Thesis advisor	Undergraduate student
2020-pres.	Alma Meckler-Pacheco	UC Davis (Coastal & Marine Sciences)	Research advisor	Undergraduate student
2020-pres.	Joyce Mok	UC Davis	Research advisor*	Post-bacc. student
2020-pres.	Susan Landa	UC Davis (CMS)	Research advisor	Undergraduate student
2020-pres.	Ava Pacheco	UC Davis (CMS)	Research advisor	Undergraduate student
2020-pres.	Lorna Haworth	UC Davis (Env. Science and Management)	Research advisor	Undergraduate student
2020-pres.	Cameron Gilbert	UC Davis (Wildlife Biology)	Research advisor	Undergraduate student
2020-pres.	Charles Woidat	UC Davis (CMS)	Research advisor	Undergraduate student
2019-2020	John Langrell	Washington State University (School of Biological Sciences)	Research advisor	Undergraduate student
2018-2020	Thomas LeClair	Washington State University (SBS)	Research advisor*	Fulbright Scholar
2018-2019	Grace Chan[+]	Washington State University (SBS)	Research advisor	Graduate student
2016-2018	Elizabeth McAlpine	UC Berkeley (Integrative Biology)	Research advisor*	Graduated
2016-	Terrance Wang	UC Berkeley (College of	Thesis	NOAA GIS

2017		Natural Resources)	advisor*	Analyst
2015-2018	Valerie Bednarski	UC Berkeley (Earth & Planetary Science)	Thesis advisor*	National Parks Service Intern
2016-2018	Shiran Hershcovich	UC Berkeley (IB)	Research advisor*	Lab coordinator
2016-2017	Chandler Shaeffer	UC Berkeley (CNR)	Thesis co-advisor	Graduated
2015-2018	Lindsay Gilkerson	UC Berkeley (CNR)	Research advisor	Outdoor education specialist
2017-2018	Laura Mackenzie	UC Berkeley (IB)	Research advisor	Graduated
2016-2017	Morgan Ziegenhorn	UC Berkeley (CNR)	Research advisor	Graduate student

Students mentored as part of a short-term research experience
Winter 2021 (UC Davis, Univ. of Washington, CSU Sacramento): Amanda Kindel, Malak Saleh, Shuqi Ren, Rose Surdyk, Kelly Weihrauch, Jesse Schroeder, Luis Zialcita, Brenna Scott, Aurora Nelson, Yiyu Sun, Aina Hori, Jessica Pineda, Madison Weise, Emily Schwabe, Mei Suilistio, Mia Perez
Fall 2020 (UC Davis): Suzanne Quiroz, Miri Kim, Jacqueline Rajerison, Y Nguyen, Lauryn Tsang

PUBLIC OUTREACH

INVITED OUTREACH PRESENTATIONS

Year	Event
2020	Suisun Adaptive Management Advisory Team "*Phragmites* stress impacting community function in Tule Red"
2020	Suisun Resource Conservation District Landowner Meeting "*Phragmites* stress impacting community function in Tule Red"
2020	Washington State University Wildlife Society "How does environmental variation influence physiology in nearshore invertebrates?"
2020	Skype A Scientist (2 events, internationally) "Climate change effects on our oceans"
2019	Skype A Scientist LIVE "Superheroes of our seas: how physiology forecasts climate change effects" https://www.youtube.com/watch?v=ayFYJDDQCZE
2018	Skype A Scientist (4 events, nationally) "Is it getting hot in here? Sea slug physiology tells us how the oceans are changing"
2017	Point Reyes National Seashore Association "Science at the Seashore", Inverness CA "Do your neighbors make you crabby? Behavioral physiology and climate change"
2017	Instructor Seminar Series, NatureBridge, San Francisco CA "Restoration in the Bay Area: what we learn from physiology and ecology"

2017 Deep Dive into Ocean Acidification Workshop, Bay Area Climate Literacy Impact Collaborative, San Francisco CA
"The physiological effects of climate change and ocean acidification on marine invertebrates"
2017 Marin Science Seminar, San Rafael CA
"How does physiological plasticity shift climate change responses in the eelgrass sea hare?

POPULAR PRESS

Blogs (see personal blog at www.richelletanner.com/blog)

Tanner RL (2020). "Fresh ideas for talking about ocean acidification." *Climate Interpreter.*
Ennes M & Tanner RL (2020). "NNOCCI Climate Science Fundamentals." *Climate Interpreter.*
Tanner RL (2020). "Ask a Scientist session summary from the NNOCCI Virtual Conference 2020." *Climate Interpreter.*
Tanner RL (2019). "The science of extremes." *Climate Interpreter*.
Tanner RL (2019). "Sea slugs make climate evolutionary choices." *Climate Interpreter, reprinted in the International Magazine for Heritage Interpretation September/October 2019 issue.*
Tanner RL (2019). "Communicating climate change: what can we learn from informal educators?" *Share Your Sci, cross-posted to Climate Interpreter & the University of California Agriculture and Natural Resources Green Blog.*
Tanner RL (2016). "Did You Know About Sea Slugs?" *BaySide Magazine Fall 2016, the quarterly newsletter for the San Francisco State University Romberg Tiburon Center.*
Tanner RL & Haw JA (2013). "USC Dornsife Scientific Diving: An analysis of *Sargassum horneri* ecosystem impact." *Scientific American.*

Interviews & Expert Panels

STEM Cool Careers Panel, Santa Monica College (2020). Moderator: Muriel Walker.
Sustainability Leader Challenge, Miami University (2020). Interviewer: Ariannah Lambert.
Mentoring Matters, University of Florida (2020). Interviewer: Paris Grey.
Ask Dr. Universe, Washington State University (2020). Interviewer: Jaime Chambers.
Hot Nudibranch Science!, This Week in Science (2019). Interviewer: Dr. Kiki Sanford.
Earth Day Special Extravaganza!, Science Sucks Podcast (2019). Interviewer: Ive Velikova.
Ask Dr. Universe, Washington State University (2019). Interviewer: Rachel Webber.
Leading Women in Marine Science Interview Series, Univ of York (2018). Interviewer: Hannah Rudd.
Alumni Spotlight, National Ocean Sciences Bowl (2018). Interviewer: Callan Yanoff.
Scientist & Engineer Panel, Science Education Resource Fair for Teachers, Chabot Space and Science Center / Community Resources for Science (2018). Moderator: Traci Grzymala.
Graduate Student Feature, UC Berkeley Integrative Biology Insight Newsletter (2017). Interviewer: Kirsten Mickelwait.

SERVICE CONTRIBUTIONS

Year	Organization	Role
2021	Frontiers in Physiology Journal	Peer Reviews Editor
2020	Western Society of Naturalists	Student Presentation Judge, Session Moderator

2020	"Asking Different Questions" Scholars, UC Davis Feminist Research Institute	Participant
2020	NSF "Organismal System-type Modeling Network" RCN	Participant, ***CANCELED FOR COVID-19**
2020	NSF "Genome-to-Phenome" RCN	SICB Session Chair, complementary session
2019	NSF Reintegrating Biology Jumpstart Meeting	Participant
2019-present	NSF "Evolving Seas" RCN	Participant, ***CANCELED FOR COVID-19**
2019-present	Society for Integrative and Comparative Biology	Student Presentation Judge
2018-present	National Network for Ocean and Climate Change Interpretation (NNOCCI), Boston, MA	Science Committee
2018	Monterey Bay Aquarium, Monterey CA	Exhibit advisor
2016-2018, 2021	National Ocean Sciences Bowl, Washington D.C.	Competition Judge
2017	NNOCCI, Boston, MA	Science Fellow
2016	Exploratorium, San Francisco CA	Exhibit advisor
2015	womENST (undergraduate professional development series at USC)	Co-founder
2015	California Science Center, Los Angeles CA	Exhibit contributor
2013-2015	USC Joint Education Project, Los Angeles CA	Presenter

Peer reviewer since 2016 for journals including the Proceedings of the Royal Society B, Evolutionary Applications, Journal of Applied Ecology, Biological Reviews, Journal of Evolutionary Biology, Physiology & Behavior, Hydrobiologia, Journal of Comparative Physiology A, Journal of Sea Research, Frontiers Physiology, Scientific Reports, and EvoDevo.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Year	Organization
2015-present	Society for Integrative and Comparative Biology (SICB)
2016-present	Society for Experimental Biology (SEB)
2019-2020	American Physiological Society (APS)
2017-2018	Graduate Women in Science
2016-present	500 Women Scientists
2014-present	Western Society of Naturalists (WSN)
2014-2016	Southern California Academy of Sciences
2014-present	Phi Beta Kappa Honor Society
2013-present	American Academy of Underwater Sciences