

## Racine E. Rangel

Postdoctoral Researcher

Department of Ecology and Evolutionary Biology

University of California, Santa Cruz

130 McAllister Way, Santa Cruz, CA 95060, U.S.A.

Phone: 308-520-1186 | Email: rrangel3@ucsc.edu | Web: [racinerangel.com](http://racinerangel.com)

### PROFESSIONAL PREPARATION

2025-Present	<b>University of California Alianza MX Postdoctoral Fellow, University of California, Santa Cruz (UCSC)</b> <i>Advisor: Dr. Kristy Kroeker - Project: Uncovering Adaptation Mechanisms: Building Coastal Aquaculture Resilience to Warming and Thermal Events Along Coastlines.</i>
2023-2025	<b>University of California President's Postdoctoral Fellow, University of California, Santa Cruz</b> <i>Advisor: Dr. Kristy Kroeker - Project: Investigating Impacts of Ocean Acidification and Diet on Red Abalone.</i>
2023	<b>Ph.D. Ecology and Evolutionary Biology, University of California, Irvine (UCI)</b> <i>Advisor: Dr. Cascade Sorte - Dissertation Title: "From Individual to Ecosystem: Multi-Stressor Effects of Acidification and Warming on the Physiological Responses of Coastal Marine Invertebrates"</i>
2021	<b>M.S. Ecology and Evolutionary Biology, University of California, Irvine</b>
2018	<b>M.S. Biological Sciences, California State University, Long Beach (CSULB)</b> <i>Advisor: Dr. Darren Johnson - Thesis Title: "Evaluating the Effects of Temperature on the Metabolic Rates of Two Sedentary Marine Fishes, the Bluebanded Goby, and the Woolly Sculpin"</i>
2013	<b>B.S. Biological Sciences, University of Nebraska at Omaha</b>

### HONORS & AWARDS \*denotes collaborative work

2025-2027	~\$138,000	UC Alianza MX Postdoctoral Research Fellowship, University of California
2025-2028	-	Climate Justice Fellow, Center for Reimagining Leadership, UCSC
2024	-	Best Student Paper 2023, Ichthyology & Herpetology, For <i>Rangel et al.</i> 2023 publication
2024	\$500	Emerging Innovators in Biology, University of California, Berkeley, CA
2024	-	BioOne Ambassador Award Nominee, Nominated for <i>Rangel et al.</i> 2023 publication
2023	\$1,000	Carl Storm Underrepresented Minority Fellowship, Gordon Research Conference
2023-2025	~\$135,000	UC President's Postdoctoral Fellow, University of California + <i>UC hiring incentive</i>
2022	\$500	PRE-Professor Program (PREPP) Fellow, CSULB/UCI
2021-2022	\$2,500	Division of Teaching Excellence and Innovation Pedagogical Scholar, UCI
2020, 2021	\$10,000	Division of Teaching Excellence and Innovation Summer Fellow, UCI
2020	-	Wrigley Summer Fellow, University of Southern California (USC), Catalina Island
2020-2023	\$81,000	Ford Foundation Predoctoral Fellow, National Academy of Sciences
2019	\$1,000	International Women's Fishing Association Scholarship
2018-2019	\$10,000	Charlie Dunlop School of Biological Sciences Fellowship, UCI
2018	\$5,000	Diversity Recruitment Fellowship, UCI
2018-2022	\$9,000	Graduate Opportunity Fellowship, UCI
2018	\$5,000	Competitive Edge Fellow, UCI
2018	-	Biological Sciences Graduate Student Honors, CSULB
2018	\$100	Outstanding Researcher Award, CSULB
2017	-	Western Society of Naturalists Honorable Mention for Best Student Paper
2017	\$578	Council on Ocean Affairs, Science and Technology, Travel Award, CSULB
2017	\$300	American Institute of Fishery Research Biologists Best Student Presentation
2017	\$250	Honorable Mention Oral Presentation, Southern California Academy of Sciences
2017	-	Charlotte Mangum Student Support, Society for Integrative & Comparative Biology
2016	\$1,000	Graduate Student Travel Fellowship, CSULB
2016	\$250	Outstanding Graduate Assistant Award, CSULB
2015	\$5,216	Student Research Assistantship, CSULB
2014-2015	\$5,216	Handloser Scholarship, CSULB
2013	-	Nominee, Vice Chancellor's Leadership Award, University of Nebraska at Omaha
2013	\$1,489	Charles A. Story Scholarship, University of Nebraska at Omaha
2012	-	Meritorious Oral Presentation Award, University of Nebraska at Omaha*
2012	\$75	Third Place Best-Student Poster Award, University of Nebraska at Lincoln
2012	\$150	First Place Best-Student Poster Award, University of Nebraska at Lincoln*
2012, 2013	-	Dean's List, University of Nebraska at Omaha
2011-2013	-	Tri Beta Biological Honor Society, University of Nebraska at Omaha
2009	\$2,600	University Scholarship Award, University of Nebraska at Omaha

### RESEARCH APPOINTMENTS

2022	<b>Intern, Minorities in Aquaculture, Casco Bay, Maine</b>
------	--

- Worked with predominantly women-owned oyster farms in Maine to assess impacts of climate change on shellfish farming, harvesting practices, and commercial trade.
- 2013-2014 **Field and Laboratory Technician, Bolnick Lab, University of Texas at Austin**  
Assisted in collecting threespine stickleback fish, parasite specimens, and environmental data on Vancouver Island, British Columbia, Canada. Conducted and managed all data analyses for detecting positive assortative mating within threespine stickleback fish populations by means of DNA extraction, stable isotope analysis, PCR, and microsatellite tags.
- 2012-2013 **Paleobotany Laboratory Assistant, Boucher Lab, University of Nebraska at Omaha**  
Coordinated and managed a scientific inventory of plant fossil specimens.
- 2011-2013 **Toxicology Research Assistant, Kolok Lab, University of Nebraska at Omaha**  
Coordinated and participated in environmental health research projects by grant writing, scientific writing, and data analysis by QPCR.
- 2009-2012 **Research Assistant, Larsen Lab, University of Nebraska Medical Center**  
Maintained three kidney transplant studies including billing, patient recruitment, and analyzing patient laboratory results.

## PUBLICATIONS

**Peer-reviewed** ‡After first author, the order of authorship is alphabetical, \*denotes award received

7. **Rangel, R. E.**, Bracken, M. E. S., Kroeker, K. J., Miller, L. P., Sorte, C. J. B. 2025. Factorial field manipulation reveals CO<sub>2</sub> and temperature effects on a critical habitat-forming shellfish. *Journal of Experimental Biology*, 228(17). DOI: [10.1242/jeb.250787](https://doi.org/10.1242/jeb.250787)
6. \***Rangel, R. E.**, Ingram, T. I., and Bolnick, D. I. 2023. Rates of alloparental care by male stickleback in natural lake populations. *Ichthyology & Herpetology*, 111(3): 368-375. DOI: [10.1643/i2021144](https://doi.org/10.1643/i2021144)
5. ‡Sorte, C. J. B., Beshai, R. A., Henry, A. K., Mahanes, S. A., **Rangel, R. E.**, and Waite, H. R. 2023. Interactions between climate change and species invasions in the marine realm. *Invasive Species and Global Climate Change*. Eds: Ziska LH. CABI Publishing, Oxfordshire, UK.
4. **Rangel, R. E.** and Sorte, C. J. B. 2022. Local-scale thermal history influences metabolic response of marine invertebrates to warming. *Marine Biology*, 169, 126. DOI: [10.1007/s00227-022-041110-2](https://doi.org/10.1007/s00227-022-041110-2)
3. **Rangel, R. E.** and Johnson, D. W. 2019. Variation in metabolic rate and a test of differential sensitivity to temperature in populations of woolly sculpin (*Clinocottus analis*). *Journal of Experimental Marine Biology and Ecology*, 511(19): 68-74. DOI: [10.1016/j.jembe.2018.11.007](https://doi.org/10.1016/j.jembe.2018.11.007)
2. **Rangel, R. E.** and Johnson, D. W. 2018. Metabolic responses to temperature in a sedentary reef fish, the bluebanded goby (*Lythrypnus dalli*). *Journal of Experimental Marine Biology and Ecology*, 501(18): 83-89. DOI: [10.1016/j.jembe.2018.01.011](https://doi.org/10.1016/j.jembe.2018.01.011)
1. Ingram, T.I., Jiang Y., **Rangel, R.**, and Bolnick, D. I. 2015. Positive but weak assortative mating by diet in lacustrine stickleback populations. *Ecology and Evolution*, 5(16): 3352-3363. DOI: [10.1002/ece3.1609](https://doi.org/10.1002/ece3.1609)

### In Submission/Review (available upon request)

**Rangel, R. E.**, Kroeker, K. J., Bracken, M. E. S., Miller, L. P., Sorte, C. J. B. Individual metabolism drives alterations in net ecosystem calcification under ocean acidification and warming. *In Submission*.

Sorte, C. J. B., Miller, L. P., **Rangel, R. E.**, Kroeker, K. J., Bracken, M. E. S. Field ocean acidification and warming experiment increases community evenness by reducing abundances of dominant species. *In Submission*.

### Other Writing

#### R. Rangel, Loh Down on Science Podcast and Radio Scripts

- 2019-2021 "Lethargic Lizards", "Backyard Feast", "That Platypus Glow", "Space Spiders", "Plant Magicians", "Pharma-ATM", "Periodic Table of Fruit", "Snoring in the Sty", "Cricket Allergies", "Bad Apples", "Armored Fish", "Ancient Brew", "Salamander Limbs", "Get In Line", "Veggie Vision", "Antibiotic Venom", "Friendly Birdie", "Stressed Out", "Plastic Wrap", "Fish Food", "Sticky Spiders", "Dairy Farm", "Amazonian Landscaper", "Bumblebee Gardening 101", "Tree Lickers", "Babblin' Baby Bats", "Baby Shark Food", "Baby Spider Boom", "Four Eyes", "Sparrow Sopranos", "Frozen Fish Sticks"

**GRANTS** ^Undergraduate mentee, \*authors contributed equally

---

2022	\$6,500	<u>Undergraduate Research Opportunities Program Graduate Student Summer Research Grant, UCI</u> <b>Rangel, R.</b> , ^Gonzalez, A., Sorte, C. <i>Using microscopy to investigate climate warming and ocean acidification impacts on the shell structure of the Pacific blue mussel (Mytilus trossulus)</i>
2021	\$1,000	<u>American Microscopical Society Student Research Grant</u> <b>Rangel, R.</b> , Sorte, C. <i>Investigating climate warming and ocean acidification impacts on the shell structure of the Pacific blue mussel (Mytilus trossulus) using microscopy</i>
2021	\$1,000	<u>The Society for Integrative and Comparative Biology Grants in Aid of Research</u> <b>Rangel, R.</b> , Sorte, C. <i>Impacts of climate warming and ocean acidification on the metabolism and shell mineralogy of the Pacific blue mussel (Mytilus trossulus)</i>
2020	\$2,000	<u>Southern California Academy of Sciences Student Research Grant</u> <b>Rangel, R.</b> , Sorte, C. <i>Do climate conditions affect host-parasite relationships in marine snails?</i>
2020	\$1,700	<u>Conchologists of America to Malacology Research Grant</u> <b>Rangel, R.</b> , Sorte, C. <i>Do climate conditions affect host-parasite relationships in two dominant intertidal marine snails, the Eroded Periwinkle Snail (Littorina keenae) and the Western-banded Tegula (Tegula eiseni)?</i>
2020	\$1,500	<u>Bloom-Hays Ecological Research Grant, Sea &amp; Sage Audubon</u> <b>Rangel, R.</b> , Sorte, C. <i>Do climate conditions affect host-parasite relationships in marine snails?</i>
2016	\$1,000	<u>Reish Research Grant in Marine Biology</u> <b>Rangel, R.</b> , Johnson, D.W. <i>Evaluating the effects of temperature on the metabolic rate of the Bluebanded Goby (Lythrypnus dalli)</i>
2016	\$1,500	<u>Southern California Tuna Club Marine Biology Scholarship</u> <b>Rangel, R.</b> , Johnson, D.W. <i>Evaluating the effects of temperature on the metabolic rate of the Bluebanded Goby (Lythrypnus dalli)</i>
2016	\$3,000	<u>Council on Ocean Affairs, Science and Technology Research Award</u> <b>Rangel, R.</b> , Johnson, D.W. <i>Contrasting the effects of temperature and food availability on life history traits of the Bluebanded goby (Lythrypnus dalli)</i>
2015	\$1,000	<u>Southern California Tuna Club Marine Biology Scholarship</u> <b>Rangel, R.</b> , Johnson, D. W. <i>Contrasting the effects of temperature and food availability on growth, age of maturation, allocation of maternal resources, and sex ratios in the hermaphroditic bluebanded goby (Lythrypnus dalli)</i>
2015	\$2,500	<u>Los Angeles Rod &amp; Reel Foundation Marine Biology Grant</u> <b>Rangel, R.</b> , Johnson, D.W. <i>Contrasting the effects of temperature and food availability on growth, age of maturation, allocation of maternal resources, and sex ratios in the hermaphroditic bluebanded goby (Lythrypnus dalli)</i>
2012	\$2,500	<u>Funds for Undergraduate Scholars, University of Nebraska at Omaha</u> <b>Rangel, R.</b> , Kolok, A. <i>Phytoremediation: Fish life Saver?</i>
2011	\$500	<u>College of Arts and Science Grant, University of Nebraska at Omaha*</u> <b>Rangel, R.</b> , Harrison, L., Kolok, A. <i>A commercially available atrazine testing kit: Reliable enough for environmental monitoring?</i>

**STUDENT GRANTS** ^Undergraduate mentee

---

2022	\$400	<u>Research Experience Fellowship, Undergraduate Research Opportunities Program, UCI</u> ^Lau, V., <b>Rangel, R.</b> , Sorte, C.
2022	\$1,500	<u>Summer Undergraduate Research Program (SURP), UCI</u> ^Lau, V., <b>Rangel, R.</b> , Sorte, C.
2021	\$410	<u>Undergraduate Research Opportunities Program, UCI</u> ^Lau, V., <b>Rangel, R.</b> , Sorte, C.
2021	\$500	<u>Undergraduate Research Opportunities Program, UCI</u> ^Phan, K., <b>Rangel, R.</b> , Sorte, C.

**INVITED PRESENTATIONS & SEMINARS**


---

2025	Biology Department Seminar, California State University, Northridge, Northridge, CA
2025	Biology Department Seminar, California State University, Long Beach, Virtual

- 2024 Ocean Sciences Department Seminar, UC Santa Cruz, Santa Cruz, CA  
 2024 Department of Environmental Science, Policy, and Management Seminar, UC Berkeley, Berkeley, CA  
 2024 John & Mary Louise Riley Seminar Series, UC Davis Coastal & Marine Sciences Institute, Bodega Bay, CA  
 2024 Department of Integrative Biology Seminar, UC Berkeley, Berkeley, CA  
 2024 Department of Ecology and Evolutionary Biology Seminar, UC Santa Cruz, Santa Cruz, CA  
 2024 Emerging Innovators in Biology, UC Berkeley, Berkeley, CA  
 2020 Field Biology Seminar, University of Exeter, Virtual  
 2020 Wrigley Institute for Environmental Studies Lecture Series, USC, Virtual  
 2019 Field Biology Seminar, University of Exeter, Sitka, AK  
 2014 Biology Seminar, North Platte High School, North Platte, NE  
 2012 Elkhorn River Research Station Opening Ceremony, University of Nebraska at Omaha, Omaha, NE

## CONTRIBUTED PRESENTATIONS \*Denotes award received, \*\* denotes two awards received

### Oral Presentations

- 2025 **Rangel, R.**, Kroeker, K., Bracken, M., Miller, L., Sorte, C. Society for Integrative and Comparative Biology. Atlanta, GA.  
 2024 **Rangel, R.**, Kroeker, K., Bracken, M., Miller, L., Sorte, C. Western Society of Naturalists. Portland, OR.  
 2024 **Rangel, R.** UC President's Postdoctoral Fellowship Program Academic Retreat. Lake Arrowhead, CA.  
 2024 **Rangel, R.**, Kroeker, K., Bracken, M., Miller, L., Sorte, C. Ocean Sciences Meeting. New Orleans, LA.  
 2023 **Rangel, R.**, Bracken, M., Kroeker, K., Miller, L., Sorte, C. Western Society of Naturalists. Monterey, CA.  
 2023 Sorte, C., Kroeker, K., Miller, L., **Rangel, R.**, Bracken, M. Ecological Society of America. Portland, OR.  
 2023 **Rangel, R.**, Bracken, M., Kroeker, K., Miller, L., Sorte, C. Society for Integrative and Comparative Biology. Austin, TX.  
 2022 **Rangel, R.**, Bracken, M., Kroeker, K., Miller, L., Sorte, C. EEB Grad Student Symposium. Irvine, CA.  
 2021 **Rangel, R.**, Sorte, C. Wrigley Fellows Symposium. Virtual.  
 2020 **Rangel, R.**, Sorte, C. Society for Advancement of Chicanos/Hispanics and Native Americans in Science. Virtual.  
 2020 **Rangel, R.**, Sorte, C. Society for Integrative and Comparative Biology. Austin, TX.  
 2018 **Rangel, R.**, Sorte, C. Summer Research Symposium. Irvine, CA.  
 2018 **Rangel, R.**, Johnson, D. Society for Integrative and Comparative Biology. San Francisco, CA.  
 2017 **Rangel, R.**, Johnson, D. Western Society of Naturalists. Pasadena, CA.\*  
 2017 **Rangel, R.**, Johnson, D. Southern California Academy of Sciences. Santa Monica, CA.\*\*  
 2016 **Rangel, R.** CSULB Annual Research Competition. Long Beach, CA.  
 2012 Larsen, J., Stevens, R.B., Groggel, G., Lyden, E., Yu, F., Borgeson, C., **Rangel, R.**, Cowardin, C., Dietz, T. American Diabetes Association. Philadelphia, PA.  
 2012 Larsen, J., Stevens, R.B., Groggel, G., Lyden, E., Yu, F., Borgeson, C., **Rangel, R.**, Cowardin, C., Dietz T. American Transplant Congress. Boston, MA.

### Poster Presentations

- 2024 **Rangel, R.** Gordon Research Conference. Manchester, NH.  
 2022 **Rangel, R.**, Bracken, M., Kroeker, K., Miller, L., Sorte, C. American Physiological Society. San Diego, CA. Press.  
 2020 **Rangel, R.**, Sorte, C. Annual Conference of Ford Fellows. Virtual.  
 2019 **Rangel, R.**, Sorte, C. UC Global Climate Leadership Council. Irvine, CA.  
 2018 **Rangel, R.**, Sorte, C. Environmental Research Poster Session. Irvine, CA.  
 2018 **Rangel, R.**, Sorte, C. Western Society of Naturalists. Tacoma, WA.  
 2017 **Rangel, R.**, Johnson, D. Society for Integrative and Comparative Biology. New Orleans, LA.  
 2016 **Rangel, R.**, Johnson, D. Joint Meeting of Ichthyologists and Herpetologists. New Orleans, LA.  
 2013 **Rangel, R.**, Kolok, A. University of Nebraska at Omaha Student Research and Creative Activity Fair. Omaha, NE.  
 2012 Harrison, L., Knight, L., and **Rangel, R.**, Kolok, A. University of Nebraska at Omaha Student Research and Creative Activity Fair. Omaha, NE.\*  
 2012 **Rangel, R.**, Kolok, A. Water: Science, Practice and Policy Conference. Lincoln, NE.\*  
 2012 Harrison, L., Knight, L., and **Rangel, R.**, Kolok, A. Water: Science, Practice and Policy Conference. Lincoln, NE.\*

## STUDENT PRESENTATIONS \*Denotes award received, ^undergraduate mentee

- 2024 ^Heneghan, S., **Rangel, R.**, Kroeker, K. Western Society of Naturalists. Portland, OR. Poster.  
 2024 ^Heneghan, S., **Rangel, R.**, Kroeker, K. Center to Advance Mentored Inquiry-Based Opportunities Research Symposium. Santa Cruz, CA. Oral Presentation.  
 2024 ^Heneghan, S., **Rangel, R.**, Kroeker, K. Center to Advance Mentored Inquiry-Based Opportunities Research Symposium. Santa Cruz, CA. Poster.  
 2023 ^Lau, V., **Rangel, R.**, Sorte, C. Excellence in Research Finalist Symposium. Irvine, CA. Poster.\*  
 2023 ^Lau, V., **Rangel, R.**, Sorte, C. Undergraduate Research Opportunities Program Symposium. Irvine, CA. Poster.  
 2023 ^Lau, V., **Rangel, R.**, Sorte, C. Southern California Academy of Sciences. Santa Barbara, CA. Poster.  
 2022 ^Lau, V., **Rangel, R.**, Sorte, C. Undergraduate Research Opportunities Program Symposium. Irvine, CA. Poster.

2021 ^Phan, K., **Rangel, R.**, Sorte, C. Undergraduate Research Opportunities Program. Irvine, CA. Virtual. Poster.

## WORKING GROUPS

2024-Present 'Biodiversity and Climate Change Assessment, United States Geological Survey', Online  
*Lead Author: Climate Change Impacts on Demographic Rates and Population-Level Changes Across North America*

2022-2023 'Marine Protected Area Collaborative Network Tidepool Working Group', Online  
2022 'Building Collaborations to Investigate Urban Eco-Evolutionary Dynamics Across the Long-Term Ecological Research Network (LTER)', University of New Mexico Sevilleta Field Station, Socorro, NM

## TEACHING AND MENTORING

2021, 2022 UCI Teacher's Assistance Professional Development Program Facilitator for the Ecology and Evolutionary Biology and Earth System Science Departments  
2020 Coordinating Teaching Assistant for *Organisms to Ecosystems* (x1) at UCI  
2018-2023 Teaching Assistant (7 quarters) for *Introduction to Biology: Cells to Organisms for Majors, Organisms to Ecosystems, Freshwater Field Ecology, Physiology Lab, and Marine Biology* (x3) at UCI  
2014-2018 Teaching Assistant (8 semesters & 2 summer sessions) for *Introduction to Biology for Non-Majors* (x8) and *Introduction to Marine Biology for Non-Majors* (x2) at CSULB

### Guest Lectures

Summer 2024, 2025 Marine Ecosystems, Middlebury Institute of International Studies at Monterey  
"Changing Coastlines: Climate Change Impacts on Oceans and Marine Life" Delivered a 40-minute lecture and 10-minute Q&A to graduate students on climate change impacts on the physiology and ecology of marine species with a focus on abalone aquaculture in California.  
Spring 2024 Environmental Physiology, UC Santa Cruz  
"Changing Coastlines: From Ecology to Physiology" Delivered a 60-minute lecture to undergraduate students on global warming and ocean acidification impacts on the ecology and physiology of coastal marine species and conducted a 30-minute active learning activity that focused on a case study understanding climate change impacts on mussel shells.  
Winter 2024 Public Heath 101: A Sustainable World, UC Berkeley (Virtual)  
"Climate Change Impacts on Oceans and Marine Life" Delivered a 30-minute lecture and 20-minute Q&A to undergraduate students on climate change impacts on the physiology and ecology of marine species with a focus on sustainable aquaculture in California and Alaska.  
Fall 2022 Biostatistics, CSULB  
"One-Way ANOVA: Tidepool Temperatures" Delivered a 50-minute lecture to undergraduate students on analyzing tidepool temperatures using a one-factor Analysis of Variance (ANOVA) statistical approach.  
Spring 2021 Marine Biology, UCI (Virtual)  
"Along A Changing Coastline: Climate Change Impacts on the Physiology of Intertidal Invertebrates" Delivered a 90-minute lecture to undergraduate students of climate change impacts on the ecophysiology of ocean species.

### Teaching and Mentoring Certifications

2021 Inclusive Hybrid Teaching  
2020 Remote Instruction, Course Design, Teaching Excellence, Associate Certificate from the Center for the Integration of Research, Teaching, and Learning (CIRTL), Mentoring Excellence

### Undergraduate and Research Assistant Mentoring (27 total)

2024-Present University of California, Santa Cruz: Emma Garcia, Lauren Baker, Lindsey Nielsen, Sally Heneghan (Center to Advance Mentored, Inquiry-Based Opportunities Student), Anna Wichems, Kelly Hayashibara, Savannah Sparks, Sophie Schaedel, Abby Adams (Spr. 2024), Alice Simenstad (Spr. 2024), Avalon Wagner (Spr. 2024), Luke Sullivan (Spr. 2024), Cameron Alexander (Spr. 2024)  
2019-2023 University of California, Irvine: Vanessa Lau (F 2021 – Spr. 2023), Abigail Gonzalez (Sum. 2022), Katherine Phan (F 2020 – Spr. 2021), Abigail Vara (W – Spr. 2020), Joseph Spaziano (W 2019)  
2014-2018 California State University, Long Beach: Zoe Allen, Amanda Benas, Emily Taylor, Kelsey Reames, Monica Castillo  
2013-2014 University of Texas at Austin: Amy Doan, Connor French, Kim Hendrix (K-12 Teacher), Samantha Killian (K-12 Teacher)

### Additional Mentoring Roles (30 total)

2023-2025	Western Society of Naturalists (WSN): Taylor Triviño, Karla Buitrago-Yepes, Tena Dhayalan, Kat O'Brien
2021-2025	Women of Color & Non-Binary People of Color in Ecology & Evolutionary Biology, Virtual
2021-2023	Latinx Resource Center, UCI: Giesi Lopez (2021-2022), Olivia Guzman (2023)
2021-2022	Association for Women in Science, Application Assistance Program, UCI
2020	Graduate and Postdoctoral Scholars Resource Center, UCI

## PROFESSIONAL & PUBLIC SERVICE

### Academic

2025	Full Panel Reviewer, University of Hawai'i Sea Grant, Island Sustainability and Resilience, Honolulu, HI
2025	Preliminary Reviewer, University of Hawai'i Sea Grant, Island Sustainability and Resilience, Virtual
2025	Reviewer, NOAA Ocean Acidification Program, Regional Resiliency & Vulnerability Assessments, Virtual
2025	Session Chair, " <i>Climate Effects on Marine Species and Communities</i> ", SICB, Atlanta, GA
2024	UC Chicana/Latina Leadership Summit, UC Santa Cruz Nominated Delegate, UC Davis
2024	Judge, Graduate and Undergraduate Oral and Poster Presentations, WSN, Portland, OR
2024	Session Chair, " <i>Intertidal Ecology II</i> ", WSN, Portland, OR
2024	Panelist, Navigating Higher Education, Transfer Student Field Welcome, UCSC
2024	Discussion Leader, " <i>Unifying Natural History, Big Data, and Theory</i> ", Gordon Research Seminar, SNHU
2024	Panelist, Career Panel, Field Biology in Practice Course (EEB 20F), UCSC
2023	Session Chair, " <i>Intertidal Ecology III</i> ", WSN, Monterey, CA
2023	Co-organizer, Winter Ecology and Evolutionary Biology Graduate Student Symposium, UCI
2022	Panelist, Grad School Q&A, Association for Women in Science, UCI
2020-2022	Safety Representative, Sorte Lab, Ecology and Evolutionary Biology, UCI
2020, 2021	Panelist, Ford Foundation Fellowship Q&A, Graduate Division Summer Research Programs, UCI
2020	Session Co-Chair, " <i>Temperature Effects from Development to Life History</i> ", SICB, Austin, TX
2020	Panelist, Undergraduate Summer Research Program, Wrigley Institute for Environmental Studies, USC
2020	Reviewer, Undergraduate Summer Research Program, Wrigley Institute for Environmental Studies, USC
2019-2022	Co-organizer, Graduate Student Invited Speaker (GSIS), Ecology and Evolutionary Biology, UCI
2018-2022	Volunteer, Graduate Student Recruitment Weekend, Ecology and Evolutionary Biology, UCI
2018	Panelist, Ph.D. Program Q&A, Graduate Student Association, CSULB
2015	Presenter, Grad School Q&A, Marine Biology Club, CSULB
2012-2013	Supervisor, Water Quality Science Olympiad, Henry Doorly Zoo, Omaha, NE
Peer review: <i>Oecologia</i> , <i>Ecology and Evolution</i> , <i>Biological Bulletin</i> , <i>Functional Ecology</i> , <i>PeerJ</i> , <i>Global Change Biology</i> , <i>Frontiers in Marine Science</i>	

### Public

2025	Presenter, Docent Training, Seymour Marine Discovery Center, Santa Cruz, CA
2024	Interviewee, SciComm Identities Project, Podcast, UCSC
2021	Writing Coach, College Bound Grad Lab Program, Girls Inc., Virtual
2020	Writing Coach, College Bound Grad Lab Program, Girls Inc., Costa Mesa, CA
2020	Writer, " <i>Marine Science Island Hopping</i> ", Student Researcher Blog, Wrigley Institute, USC
2019	Presenter, Research Lab Tours for Godinez High School, UCI
2016	Volunteer, UNICEF's Next Generation Art Party, Los Angeles, CA
2014-2018	Tour Guide, Marine Lab, CSULB
2012	Coordinator, Elkhorn River Water Quality Monitoring, Omaha, NE
2012	Volunteer, Lauritzen Gardens – Omaha Botanical Garden Center, Omaha, NE

## EDUCATION & OUTREACH

2024, 2025	Science Fair Judge – Gateway School, Santa Cruz, CA Interviewed and provided feedback to 6 <sup>th</sup> - 8 <sup>th</sup> grade students on their science and engineering projects.
2021-2022	<u>TideWater Docent – Laguna Ocean Foundation, Laguna Beach, CA</u> Provided onsite education to the public about tide pool organisms, the rocky intertidal ecosystem, local marine research projects, and conservation efforts within Marine Protected Areas (MPAs) in Southern California.
2021	<u>Managing Editor – Loh Down on Science, UCI</u> Trained new science writers, reviewed scientific writing topics, edited and finalized written scripts for clarity, style, and scientific accuracy.

2019-2021	<u>Science Communication Fellow – Loh Down on Science, UCI</u> Wrote 31 scripts and peer edited scripts for the “Loh Down on Science” radio show and podcast. Scripts are a daily dose of science in less than two minutes with a dash of humor. The program is broadcasted by National Public Radio (NPR) and the Southern California Public Radio (KPCC).
2019	<u>Volunteer – UCI BioSci Homecoming Booth, Irvine, CA</u> Assisted in presenting and communicating the impacts of plastic pollution in marine ecosystems to students, parents, and alumni.
2017	<u>Volunteer – Beach Clean Up, Long Beach, CA</u> Assisted in cleaning the coastline of plastic and trash debris while educating the public on microplastic pollution in the ocean.
2014	<u>Presenter – Animals and Biology, Gant Elementary School, Long Beach, CA</u> Presented level-appropriate life history background, diet, habitat use, and conservation of leopard geckos to a kindergarten class.
2010-2011	<u>Intern and Docent – Henry Doorly Zoo Aquarium, Omaha, NE</u> Cleaned and maintained marine and freshwater aquarium exhibits and presented zoo visitors with information on aquarium animals and how to help with ocean conservation.
2009-2011	<u>Member – Environmental Club, University of Nebraska at Omaha, Omaha, NE</u> Helped educate and establish recycling efforts at all campus sport activities and educate and promote reusable water bottles to reduce plastic bottle use on campus.
2009-2011	<u>Volunteer – Omaha Earth Day, Omaha, NE</u> Helped run a booth focused on teaching Omaha residents how to reduce their carbon footprints and be more conscious of Nebraska’s water quality.

## **CERTIFICATIONS & TRAININGS**

---

2024	UCSC Field Futures Harassment Prevention Training
2021	UCI Newkirk Center for Science & Society Community-Based Research
2010-2015	Professional Association of Diving Instructors (PADI); Open Water Diver and Advanced Open Water Diver Certified American Academy of Underwater Sciences (AAUS) Scientific Diver for California State University; currently 60ft certified

## **PROFESSIONAL AFFILIATIONS**

---

The Society for Integrative and Comparative Biology (SICB), Southern California Academy of Sciences (SCAS), Western Society of Naturalists (WSN), American Society of Ichthyologists and Herpetologists (ASIH), Society for Advancement of Chicanos/Hispanic and Native Americans in Science (SACNAS), American Microscopical Society (AMS), Association for Women in Science (AWIS), Minorities in Aquaculture (MIA)