AMELIA L. RITGER

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EDUCATION

	Advisor: Gretchen Hofmann
2011 – 2015	Dartmouth College B.A., Biology; Anthropology modified with Environmental Studies GPA: 3.66/4.0, <i>cum laude</i>
PROFESSIONAL EXPERIENCE	
Research	
2016 – 2018	Research Assistant Dr. Daniel Kronauer – Rockefeller University (New York, NY)
2015 – 2016	James B. Reynolds Scholar Caribbean Marine Biological Institute (Curacao, Dutch Antilles)
2014	Junior Research Scholar Mentor: Jessica V. Trout-Haney Dr. Kathryn L. Cottingham – Dartmouth College (Hanover, NH)
2014	CCMI Research Experience for Undergraduates (REU) Intern Dr. Thomas K. Frazer – Central Caribbean Marine Institute (Little Cayman, British West Indies)
2014	Dartmouth Biology Foreign Study Program (FSP) student Dr. Ryan Calsbeek, Dr. Matthew Ayres, and Dr. Celia Chen (Costa Rica and Little Cayman, BWI)

2013 Lab and Field Assistant

Dr. Seth D. Dobson – Caribbean Primate Research Center (Cayo Santiago, Puerto Rico)

2012 – 2013 Sophomore Science Scholar

Mentor: Samuel B. Fey

2018 - present University of California, Santa Barbara

Ph.D., Ecology Evolution and Marine Biology

Dr. Kathryn L. Cottingham – Dartmouth College (Hanover, NH)

Mentorship

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2021 – 2022	Zoe Fung (UC Santa Barbara): <i>Investigating the influence of interacting environmental mosaics on an abundant intertidal snail</i> Faculty Research Assistance Program, UCSB (Santa Barbara, CA)
2021 – 2022	Doris Lius (UC Santa Barbara): Leveraging Marine Science Datasets for Integrated and Interactive K-12 Learning
2021	Aanchal Garg (UC Santa Barbara): <i>Investigating the influence of interacting environmental mosaics on an abundant intertidal snail</i>
2021	Kayla Caplin (Paul D Schreiber High School): The Influence of the Strawberry Anemone

(Corynactis californica) on Purple Urchin Foraging Behavior Research Mentorship Program, UCSB (Santa Barbara, CA) 2020 – 2021 Ellyse Anderson (UC Santa Barbara): Will you be my neighbor? Ecological interactions between a corallimorph and kelp forest critters on the benthos
 EEMB Senior Honors Program, UCSB (Santa Barbara, CA)
 Faculty Research Assistance Program, UCSB (Santa Barbara, CA)

 2020 Carlyn Hamel (Pacific Ridge High School): The Effects of Corynactis californica on the Foraging Behavior of Purple Urchins at Various Starvation States
 Research Mentorship Program, UCSB (Santa Barbara, CA)

 2019 Xavius Boone (UC Davis): Urchin Starvation State May Amplify the Positive Interaction Between

Corynactis californica and Macroalgae

Ocean Global Change Biology REU, UCSB (Santa Barbara, CA). *Current status*: Ph.D. graduate student (San Diego State University)

Teaching

2022 Graduate teaching assistant

ES 60: Applied Ecology (UC Santa Barbara)

2014 Undergraduate teaching assistant

BIOL 27: Animal Behavior (Dartmouth College, Hanover, NH)

FELLOWSHIPS & AWARDS

2021	UCSB Ecology, Evolution, and Marine Biology Storke Award
2018	National Science Foundation Graduate Research Fellowship Program
2015	James B. Reynolds Scholarship for Foreign Study
2014	Central Caribbean Marine Institute Research Experience for Undergraduates
2014	Dartmouth Undergraduate Research Grant
2012	Dartmouth Sophomore Science Scholarship

RESEARCH GRANTS

2021	Schmidt Family Foundation Research Accelerator Award (\$8,000)
2020	UCSB Associated Students Coastal Fund Major Grant (\$15,740)
2019	UCSB Graduate Students Association Travel Grant (\$200)
2015	James B. Reynolds Scholarship for Foreign Study (\$20,000)

PUBLICATIONS

Published

Trout-Haney, J.V., **Ritger, A.L.**, Cottingham, K.L. 2021. Benthic cyanobacteria of the genus *Nostoc* are a source of microcystins in Greenlandic lakes and ponds. Freshwater Biology 66: 266-277.

Ritger, A.L., Fountain, T.C., and Pierotti, M.E.R. 2020. Evidence for selectivity in the invasive lionfish (*Pterois volitans/miles*). Journal of Experimental Marine Biology and Ecology 524: 151311.

Chandra, V., Fetter-Pruneda, I., Oxley, P.R., **Ritger, A.L.**, McKenzie, S.K., Libbrecht, R., Kronauer, D.J.C. 2018. Social regulation of insulin signaling and the evolution of eusociality in ants. Science 361(6400): 398-402.

Ritger, A.L., Curtis, A., and Chen, C.Y. 2018. Bioaccumulation of mercury and other metal contaminants in invasive lionfish (*Pterois volitans/miles*) from Curação. Marine Pollution Bulletin 131: 38-44.

PRODUCTS

Shiny app – Marine Biodiversity Observation Network (https://ameliaritger.shinyapps.io/mbon-shiny-app/)
Shiny app – Ocean Acidification Classroom Resource (https://ameliaritger.shinyapps.io/intertidal-oa-education/)

MEETING PRESENTATIONS

2021	Monitoring ocean acidification in California rocky intertidal habitats. 102 nd Annual Meeting of the Western Society of Naturalists (Virtual). Poster.
2019	Intraspecific variation in a clonal corallimorph alters purple urchin foraging behavior. 100 th Annual Meeting of the Western Society of Naturalists (Ensenada, Mexico). Poster.
2017	Patterns of Mercury bioaccumulation in invasive lionfish (Pterois volitans/miles) from Curacao. 13 th International Conference on Mercury as a Global Pollutant (Providence, RI). Talk.
2015	Friend or foe? Prey fish perception of predatory lionfish. Karen E. Wetterhahn Science Symposium (Hanover, NH). Poster.

PUBLIC EDUCATION & OUTREACH

2019, 2021	Judge, Santa Barbara County Science and Engineering Fair. UCSB (Santa Barbara, CA; virtual)
2020	Interview a Scientist, Sci-Section Radio Show (radio/streaming/online)
2020	Science communicator, Transitional Kindergarten class. Hollister Elementary School (Goleta, CA)
2019	Science communicator, World Oceans Day Festival. Santa Barbara Museum of Natural History Sea Center (Santa Barbara, CA)
2016	Oral presenter – To Eat or Not to Eat? The diet of the Curacao lionfish and the woes of field research. Caribbean Marine Biological Institute (Curacao, Dutch Antilles)
2014	Oral presenter – <i>Friend or foe? Prey fish perception of predatory lionfish.</i> Central Caribbean Marine Institute (Little Cayman Island, BWI)

PROFESSIONAL SERVICE

University and Departmental service

2019 - 2022	UCSB EEMB Graduate Student Symposium Committee
2019 - 2022	UCSB EEMB Diversity, Equity, Inclusion and Wellness Committee
2020 - 2021	UCSB American Association of University Women (AAUW) Mentorship Program
2020 - 2021	UCSB Associated Students Bike Shop Building Committee

Reviewer for scientific publications

Ecology, Ethology

Reviewer for grant proposals

NOAA/MARFIN