

# AMELIA L. RITGER

EEMB, UCSB, Santa Barbara, CA 93106-9620

[aritger@ucsb.edu](mailto:aritger@ucsb.edu)

(775) 781-8224

## EDUCATION

---

- 2018 – present **University of California Santa Barbara**  
Ph.D., Ecology Evolution and Marine Biology  
Advisor: Gretchen Hofmann
- 2011 – 2015 **Dartmouth College**  
B.A., Biology; Anthropology modified with Environmental Studies  
Biology Foreign Study Program in Costa Rica and Little Cayman, British West Indies  
Spanish Language Study Abroad in Buenos Aires, Argentina  
GPA: 3.66/4.0, *cum laude*

## RESEARCH EXPERIENCE

---

- 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 **Research Experience for Undergraduates (REU) Intern**  
Dr. Thomas K. Frazer  
Central Caribbean Marine Institute, Little Cayman, British West Indies
- 2013 **Lab and Field Assistant**  
Dr. Seth D. Dobson  
Dartmouth College, Hanover, NH; Cayo Santiago, Puerto Rico
- 2012 – 2013 **Sophomore Science Scholar**  
Mentor: Samuel B. Fey  
Dr. Kathryn L. Cottingham  
Dartmouth College, Hanover, NH

## GRANTS, FELLOWSHIPS, AND AWARDS

---

- 2018 National Science Foundation Graduate Research Fellowship Program (\$138k)
- 2015 James B. Reynolds Scholarship for Foreign Study (\$20k)
- 2014 Central Caribbean Marine Institute Research Experience for Undergraduates (\$4k)
- 2014 Dartmouth Undergraduate Research Grant (\$2.5k)
- 2012 Dartmouth Sophomore Science Scholarship (\$1k)

## **PUBLICATIONS**

---

### **Published**

**Ritger, A.L.**, Fountain, T.C., and Pierotti, M.E.R. Evidence for selectivity in the invasive lionfish (*Pterois volitans/miles*). 2020. 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 Curaçao. Marine Pollution Bulletin 131: 38-44.

### **In prep**

Trout-Haney, J.V., **Ritger, A.L.**, Cottingham, K.L. Benthic cyanobacteria of the genus *Nostoc* are a source of microcystins in Greenlandic lakes and ponds. (in prep)

## **POSTERS AND PRESENTATIONS**

---

**Ritger, A.L.**, Stier, A.C. 2019. Intraspecific variation in a clonal corallimorph alters purple urchin foraging behavior. Poster. 100<sup>th</sup> Annual Meeting, Western Society of Naturalists. Ensenada, Mexico.

**Ritger, A.L.**, Curtis, A., and Chen, C.Y. 2017. Patterns of Mercury bioaccumulation in invasive lionfish (*Pterois volitans/miles*) from Curacao. Oral Presentation. 13<sup>th</sup> International Conference on Mercury as a Global Pollutant. Providence, RI.

**Ritger, A.L.**, and Fountain, T.C. 2016. To Eat or Not to Eat? the diet of the Curacao lionfish and the woes of field research. Oral presentation. Caribbean Marine Biological Institute, Curacao. Oral presentation.

**Ritger, A.L.**, Jacoby, C.A., and Frazer, T.K. 2015. Friend or foe? prey fish perception of predatory lionfish. Poster presentation. Karen E. Wetterhahn Science Symposium, Dartmouth College, Hanover, N.H.

**Ritger, A.L.**, Jacoby, C.A., and Frazer, T.K. 2014. Friend or foe? prey fish perception of predatory lionfish. Poster presentation. Oral presentation. Central Caribbean Marine Institute, Little Cayman Island, British West Indies.

## **TEACHING AND MENTORSHIP, SEMINARS, AND OUTREACH**

---

2019	Ocean Global Change Biology REU mentor, University of California Santa Barbara, Santa Barbara, CA
2019	Science communicator, World Oceans Day Festival, Santa Barbara Museum of Natural History Sea Center, Santa Barbara, CA
2019 – 2020	Judge, Santa Barbara County Science and Engineering Fair
2017	Evolution in Philadelphia Conference, University of Pennsylvania, Philadelphia, PA
2017	Social Evolution and Genome Complexity Symposium, Columbia University, New York, NY
2016	Field assistant mentor, Caribbean Marine Biological Institute, Curacao
2014	Undergraduate teaching assistant, Animal Behavior (BIOL 27), Dartmouth College, Hanover, NH

## **PROFESSIONAL SERVICE**

---

2015 – 2020 Reviewer for *Ethology*, *Ecology*, NOAA/MARFIN