

**Colleen B Bove, Ph.D.** (*she/her/hers*)  
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## EDUCATION

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Ph.D. in Ecology **University of North Carolina at Chapel Hill** (2015 – 2020)  
Advisor: Dr. Karl Castillo  
Dissertation: *Regional and species level responses of Scleractinian corals under global change within the Caribbean Sea*

B.S. in Marine Biology **University of North Carolina at Wilmington** (2010 – 2014)  
Cum Laude, Honors  
Honors Thesis: *Responses of coral gastrovascular cavity pH to changes in light level and seawater pH suggest species-specific responses to the effects of ocean acidification on calcification* (Advisor: Dr. Alina Szmant)

## POSTDOCTORAL EXPERIENCE

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Microbiome Initiative Fellow **Boston University** (2022 – present)  
Advisors: Dr. Sarah Davies and Dr. Daniel Segrè

Postdoctoral Associate Lecturer **Boston University** (2020 – 2021)  
Advisor: Dr. Sarah Davies

Postdoctoral Researcher **University of North Carolina at Chapel Hill** (2020)  
Advisor: Dr. John Bruno

\*\* Two postdoctoral positions were offered and then frozen due to COVID-19 hiring freezes  
University of Arizona, Biosphere 2; Postdoctoral researcher  
Maritime Aquarium, Norwalk, CT; Research Scientist

## SUMMARY OF ACADEMIC ACTIVITY

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- 10 semesters of teaching experience (teaching assistant and instructor of record)
- 13 publications in peer-reviewed journals
- Total citations: 149, h-index: 6 (source: [google scholar](#))

## MENTORSHIP

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(\* denotes students who obtained research and/or travel funds for their work under my advisement)

2022 – Present	Emilee Redshaw	Undergraduate Student
2022 – Present	Audrey Wong*	Undergraduate Student
2022 – Present	Annabel Hughes	Undergraduate / Lab Technician
2022 – Present	Nicola Kriefall	PhD Student
Summer 2022	Angela Jiang*	Undergraduate REU Student
Summer 2022	Sarah Soroca	High School Student
Summer 2022	Sara Medina	High School Student
2022	Katharine Greene	Undergraduate Student
2021 – Present	Alexa Huzar	Lab Technician
2021 – Present	James Fifer	PhD Student
2021 – Present	Ariel Pezner	PhD Student
2021 – Present	Isabel Silva	Masters Student
2021 – Present	Kate Gould	PhD Student
2020 – Present	Esteban Agudo	PhD Student
2019 – 2020	Liz Farquhar*	Undergraduate Student
2019 – 2020	Jess McCoppin*	Undergraduate Student
2017 – 2020	Kyle Oliveira*	Undergraduate Student
2017 – 2018	Michael Zhang	High School Student
2017	Brigitte Butler*	Undergraduate Student
2017	Lauren Winbourne	Undergraduate Student
2016 – 2019	Bailey Thomasson*	Undergraduate Student

2016 – 2017	Cassie Joynes	High School Student
2016 – 2017	Zoe Sparks	Undergraduate Student
2016 – 2017	Brooke Benson*	Undergraduate Student
2016	Forrest Buckthal	Undergraduate Student
2016	Meghan Gore	Undergraduate Student
2016	Brad Kotlarz	Undergraduate Student
2015 – 2016	Cori Lopazanski	Undergraduate Student
2015 – 2016	Joseph Townsend*	Undergraduate Student
2015 – 2016	Kathryn Cobleigh	Undergraduate Student

## **UNDERGRADUATE HONORS THESES ADVISED**

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2021 – 2022	Katharine Greene: <i>Interactive effects of microplastics and climate change stressors on gene expression in endangered Caribbean coral <i>Acropora cervicornis</i></i> (Boston University)	
2020 – 2021	Jess McCoppin: <i>Impact of predicted end-of-century temperature on calcification and tissue color of the temperate coral, <i>Oculina arbuscula</i></i> (UNC Chapel Hill)	
2019 – 2020	Kyle Oliveira: <i>Examining the independent and combined effects of ocean warming and acidification on the corallite morphology of the Caribbean coral <i>Siderastrea siderea</i></i> (UNC Chapel Hill)	
2018 – 2019	Bailey Thomasson: <i>Impacts of global climate change on the skeletal morphology of the Caribbean coral <i>Siderastrea siderea</i> over time</i> (UNC Chapel Hill)	

## **TEACHING ACTIVITIES** (\* courses that were taught in hybrid format due to COVID-19)

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### **Boston University**

#### \*Biology of Global Change: Instructor of Record (1 semester)

Lecturer of 100 students for the 4-credit course aimed at upper-level undergraduate students. Created lab component for course and oversaw three graduate teaching assistants as they instructed the labs.

#### Readings In Biology: Instructor of Record (1 semester)

Guided independent study course involving library research, discussion, and written work on a chosen topic in the biological sciences (2 credit hour course)

#### \*Human/System Physiology: Postdoctoral Associate Lecturer (3 semester; 10 sections total)

Laboratory course instructor for the lab component (5 contact hours per week per course) of course. Helped students design, implement, and analyze group projects over the course of the semester.

### **UNC Chapel Hill**

#### Conservation Biology: Teaching Assistant (1 semester)

Lecturer of 100 students for 4 credit hour course aimed at upper-level undergraduate students. Created lab component for course and oversaw three graduate teaching assistants as they instructed the labs.

#### Ecology and Evolution: Teaching Assistant (1 summer semester)

Led recitation sections for course, which included several local field excursions to assess local forest and river ecological concepts.

#### Coral Reef Ecology + Management: Teaching Assistant (1 semester)

Semester long course with a 10-day field component in St. Johns USVI with 25 undergraduate students. Acted as the coral reef ecologist on the teaching team, presenting lectures on coral identification and ecology, leading snorkel trips to survey and identify species, and assisted with student projects.

#### Introduction to Environment and Society: Lead Teaching Assistant (3 semester; 6 sections total)

Created discussion recitation course content (syllabi, assignments, presentations, rubrics) and supervised 4-6 other teaching assistants teaching the course. In addition to leading course discussion recitations and attending lectures to assist the lecturer as necessary.

#### Introduction to Environment and Society: Teaching Assistant (3 semester; 7 sections total)

Led course discussion recitations and attended lectures to assist the lecturer as necessary.

**PUBLICATIONS** (\* mentee; + senior and corresponding author; † co-first authors)

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13. **Bove CB**, Ingersoll MV, Davies SW. *Help Me, Symbionts, You're My Only Hope: Approaches to Accelerate Our Understanding of Coral Holobiont Interactions*. Integrative and Comparative Biology, DOI: 10.1093/icb/icac141. (Invited perspective)
12. **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Thomasson BC\*, Farquhar EB\*, McCoppin JA\*, Castillo KD. *Global change differentially modulates coral physiology and suggests future shifts in Caribbean reef assemblages*. PLOS ONE, DOI: 10.1371/journal.pone.0273897
11. Eagle RA, Guillermic M, De Corte I, Alvarez Caraveo B, **Bove CB**, Misra S, Cameron LP, Castillo KD, Ries JB. *Physicochemical control of Caribbean coral calcification linked to host and symbiont responses to varying pCO<sub>2</sub> and temperature*. Journal of Marine Science and Engineering, 10(8), 1075. DOI: 10.3390/jmse10081075.
10. Brandt M, Romero IS, Garnica DF, Agudo-Adriani E, **Bove CB**, Bruno JF. (2022) *Top-Down and Bottom-Up Control in the Galápagos Upwelling System*. Frontiers in Marine Science, 7:1-8. DOI: 10.3389/fmars.2022.845635.
9. **Bove CB**, Mudge L, Bruno, JF. (2022) *A century of warming on Caribbean reefs*. PLOS Climate 1(3): e0000002. DOI: <https://doi.org/10.1371/journal.pclm.0000002>
8. Fifer JE, Yasuda N, Yamakita T, **Bove CB**, Davies SW. (2022) *Genetic divergence and range expansion in a western North Pacific coral*. Science of The Total Environment. DOI: 10.1016/j.scitotenv.2021.152423.
7. Aichelman HE, **Bove CB**, Castillo KD, Boulton JM, Knowlton AC, Nieves OC, Ries JB, Davies SW. (2021) *Exposure duration modulates the response of Caribbean corals to global change stressors*. Limnology & Oceanography. DOI: 10.1002/lno.11863.
6. Davies SW, Putnam HM, Ainsworth T, Baum JK, **Bove CB**, Crosby SC, Côté IM, Duploux A, Fulweiler RW, Griffin AJ, Hanley TC, Hill T, Humanes A, Metaxas A, Parker L, Rivera HE, Silbiger NJ, Smith NS, Spalding AK, Traylor-Knowles N, Weigel BL, Wright RM, Bates AE. (2021) *Promoting inclusive metrics of success and impact to dismantle a discriminatory reward system in science*. PLoS Biology. DOI: 10.1371/journal.pbio.3001282.
5. Baumann JH, **Bove CB**, Carne L, Castillo KD. *Two offshore coral species show greater acclimatization capacity to environmental variation than nearshore counterparts in Southern Belize*. (2021) Coral Reefs. DOI: 10.1007/s00338-021-02124-8.
4. **Bove CB**, Whitehead RF, Szmant AM. *Responses of coral gastrovascular cavity pH during light and dark incubations to reduced seawater pH suggest species-specific responses to the effects of ocean acidification on calcification*. (2020) Coral Reefs. DOI: 10.1007/s00338-020-01995-7
3. **Bove CB**, Umbanhowar J, Castillo KD. *Meta-analysis reveals reduced coral calcification under projected ocean acidification and warming across the Caribbean*. (2020) Frontiers in Marine Science, 7:1-11. DOI: 10.3389/fmars.2020.00127
2. **Bove CB**, Ries JB, Davies SW, Westfield IT, Umbanhowar J, Castillo KD. *Common Caribbean corals exhibit highly variable response to predicted future acidification and warming*. (2019) Proceedings of the Royal Society B, 286:1-9. DOI: 10.1098/rspb.2018.2840
1. Benson BE, Rippe JP, **Bove CB**, Castillo KD. *Apparent timing of *Siderastrea siderea* density banding in relation to colony growth and physiology*. (2018) Coral Reefs, 38:165-176. DOI: 10.1007/s00338-018-01753-w

**PUBLICATIONS IN REVIEW OR REVISION**

14. **Bove CB**, Greene K, Sugierski S, Kriefall NG, Huzar AK, Hughes AM, Sharp K, Fogarty ND, Davies SW. *Exposure to global change and microplastics elicits an immune response in an endangered coral*. (In Review at *Frontiers in Marine Science*; preprint available: <https://doi.org/10.1101/2022.09.05.506609>)

**PUBLICATIONS IN PREPARATION**

15. **Bove CB**<sup>†</sup>, Castillo KD<sup>†</sup>, Davies SW, Ries JB. *Local adaptation and transcriptomic plasticity of a resilient Caribbean coral*.
16. **Bove CB**, Castillo KD, Ries JB, Davies SW. **Siderastrea siderea* host gene expression and holobiont phenotype is driven by dominant Symbiodiniaceae genus*.

17. **Bove CB**, Pechenik JA, Davies SW. *Transcriptomic resilience of the winter-acclimated marine gastropod *Crepidula fornicata* under short-term elevated temperature stress*
18. Oliveira KS\*, Thomasson BC\*, Ries JB, Castillo KD, **Bove CB\***. *Global change impacts on the skeletal morphology of the Caribbean coral *Siderastrea siderea* over time.*
19. Rippe JP, Baumann JH, **Bove CB**, Aichelman HA, Davies SW, Castillo CD. *Modern reversal of coral growth-climate connection.*

### **PUBLISHED PROTOCOLS**

**Bove CB**, & Baumann, JH (2021). Coral Carbohydrate Assay for 96-well plates.

<https://doi.org/10.17504/protocols.io.bvb9n2r6>

**Bove CB**, Baumann, JH (2021). Coral Lipid Assay for 96-well plates.

<https://doi.org/10.17504/protocols.io.bvcfn2tn>

### **RESEARCH FUNDING AND FELLOWSHIPS** Total Funding: \$163,060

*The asterisk (\*) indicates a grant for which I was not the official PI due to graduate student status but was the lead writer and researcher on the project.*

- 2019 **Microbiome Initiative Accelerator Grant** Boston University; How does environmental variability shape coral-associated algal and microbial network interactions across temporal and spatial scales  
**PIs:** Sarah Davies, Daniel Segre, **Colleen Bove** – \$79,940
- 2019 **UNC Dissertation Completion Fellowship**, University of North Carolina at Chapel Hill; **PI: Colleen Bove** – \$20,000
- 2019 **Lerner-Gray Grants for Marine Research**, American Museum of Natural History; Understanding the physiological responses of four Caribbean reef-building coral holobionts under projected ocean acidification and warming scenarios **PI: Colleen Bove** – \$3,370
- 2019 **Rufford Small Grants for Nature Conservation**, The Rufford Foundation; Continuing research on coral acclimation on the Belize Mesoamerican Barrier Reef System **PI: Justin Baumann** – £20,000, **Co-PI: Colleen Bove**
- 2018 **UNC Off Campus Research Fellowship**, University of North Carolina at Chapel Hill; **PI: Colleen Bove** – \$10,000
- 2018 **Steven W. Matson Summer Research Fellowship**, University of North Carolina at Chapel Hill; **PI: Colleen Bove** – \$5,000
- 2018 **\*University Research Council Small Grant**, University of North Carolina at Chapel Hill; Disentangling the transcriptomic responses of the coral host and algal endosymbiont under projected global change **PI: KD Castillo** – \$7,500, **Role: Project lead**
- 2018 **Sea of Change Foundation Marine Conservation Scholarship**, Women Diver Hall of Fame; Disentangling the transcriptomic responses of the coral host and algal endosymbiont under projected global change **PI: Colleen Bove** – \$2,000
- 2017 **Hill Foundation Fellowship in Marine Science**, University of North Carolina at Chapel Hill; Funds to support an undergraduate researcher in investigating how global change impacts coral algal endosymbiont physiology **PI: Colleen Bove** – \$250
- 2012 **Gillings Fellowship**, University of North Carolina at Wilmington; fellowship for a semester long study abroad at University of Southampton, England **PI: Colleen Bove** – \$10,000

### **AWARDS AND HONOURS**

- 2021 Dr. Oboh-Weilke Postdoctoral Travel Award (\$1,250)
- 2019 48<sup>th</sup> Benthic Ecology Meeting 2<sup>nd</sup> Best Graduate Student Oral Presentation (\$100)
- 2019 UNC Graduate Student Transportation Grant (\$2,000)
- 2019 Mentee (Bailey Thomasson) awarded UNC Department of Biology's 2019 Robert Coker Award for excellence in research for her honors thesis *Examining the combined effect of ocean acidification and warming on the skeletal morphology of *Siderastrea siderea**
- 2018 UNC Graduate Student Professional Federation Travel Grant (\$400)
- 2018 UNC Environment and Ecology Graduate Symposium Best Oral Presentation (\$50)
- 2018 Undergraduate mentee awarded Best Poster Presentation – Climate Change Symposium (\$200)
- 2017 University of North Carolina Chapel Hill Graduate Student Mentoring Award

- 2017 Honorable Mention in National Science Foundation Graduate Research Fellowship Program
- 2017 4<sup>th</sup> Annual UNC Climate Change Symposium Best Poster Presentation (\$400)
- 2017 UNC Academic Research Conference Best Natural Sciences Oral Presentation
- 2016 Honorable Mention in National Science Foundation Graduate Research Fellowship Program
- 2014 UNCW Distinguished Undergraduate Research Scholar
- 2014 Benthic Ecology Meeting Best Undergraduate Poster Presentation Award (\$100)
- 2013 Chancellor's Achievement Award
- 2013 UNCW CSURF Fall Student Travel Award (\$1,000)

## PROFESSIONAL SERVICE

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*Session chair, Symposium: Climate Change; Benthic Ecology Meeting, Portsmouth, NH, 2022*

*Session chair, Symposium: Coral Reefs and Climate Change; Society of Integrative and Comparative Biology, virtual, 2021*

Reviewer for: *National Science Foundation (NSF), Frontiers in Marine Science, PLOS ONE, PLOS Climate, Nature Climate Change, Coral Reefs, Proceedings of the Royal Society – Biology, Biogeosciences, Integrative and Comparative Biology, FEMS Microbiology Ecology*

## DIVERSITY, EQUITY, JUSTICE, AND INCLUSION

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2022 *Indigenous People's Day Department Workshop; Department of Biology, Boston University; Lead organizer*

2022 *Greater Boston Research Opportunities for Young Women; Boston University; mentor of two high school students*

2022 *Emerging Scholars Integrative Scholars Program; Boston University; organizer*

2021 – 2022 *Boston University Committee on Sexual Assault and Harassment Prevention; member*

2021 – Present *Boston University Biology Antiracism Committee; member*

2021 *Davies SW, Putnam HM, Ainsworth T, Baum JK, Bove CB, et al. (2021) Promoting inclusive metrics of success and impact to dismantle a discriminatory reward system in science. PLoS Biology. DOI: 10.1371/journal.pbio.3001282.*

2021 *The Biology Prospective Scholars Program; Boston University; mentor*

2021 *Emerging Scholars Integrative Scholars Program; Boston University; organizer*

2021 *BU Career Exploration and Learning in Life Sciences; panel member*

2021 *SICB Broadening Participation; mentor*

2020 *Disabled in STEM; mentor*

2019 – 2020 *Society for Women in Marine Science (SWMS); mentor*

2018 – 2021 *UNC Chancellor Science Scholar; undergraduate student mentor*

## CONSULTING EXPERIENCES

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**2020 – 2021 Statistics and Visualization Consultant** University of North Carolina at Chapel Hill  
Perform data management, visualization, and statistical analysis in R and python of large sea surface temperature datasets, as well as consult on several ongoing projects in the Bruno Marine Ecology and Conservation Lab at UNC Chapel Hill.

**2019 – 2022 R Programming Contractor** CISME Instruments, LLC, Wilmington, NC  
Write R software program to analyze data output from CISME device for Photosynthesis-Irradiance curves. CISME is now sold by Qubit Systems ([qubitbiology.com/cisme/](http://qubitbiology.com/cisme/)).

## INVITED SEMINARS AND LECTURES

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2022 *Ecophysiology of marine invertebrates under global change: from genes to ecosystems* (Boston University, EBE-MB Seminar Series) September 2022

2022 *Ecophysiology of marine invertebrates under global change from genes to ecosystems* (Rhode Island College, invited seminar) June 2022

2022 *Ecophysiology of marine invertebrates under global change from genes to ecosystems* (Old Dominion University, invited seminar) January 2022

- 2021 *Global change ecophysiology: from ecosystems to individuals* (Boston University, EBE-MB Chalk Talk Seminar Series) October 2021
- 2021 *Physiological and transcriptomic responses of Caribbean corals under global change* (University of Rhode Island, Bio@Noon Seminar Series) February 2021
- 2020 *Coral reefs under global change* (Boston University Marine Program, guest lecture) December 2020
- 2020 *Coral reefs under global change* (Georgetown University, Environmental Geoscience, guest lecture) October 2020
- 2020 *Regional and species level responses of Scleractinian corals under global change within the Caribbean Sea* (The University of Texas Marine Science Institute, Departmental Seminar) June 2020
- 2020 *Caribbean reef-building corals exhibit highly variable growth and physiological responses under projected global change* (The Maritime Aquarium at Norwalk, CT Science Seminar Series) February 2020
- 2019 *Physiological and transcriptomic responses of coral hosts and algal symbionts of four Caribbean corals under global change* (UNC Chapel Hill Environment, Ecology, and Energy Program Seminar Series) October 2019
- 2018 *Understanding the physiological responses of the coral host and algal symbiont of four Caribbean corals under ocean acidification and warming* (Boston University Marine Program, guest lecture) November 2018
- 2018 *Impacts of ocean acidification and warming on the growth and physiology of four Caribbean reef-building corals* (UNC Asheville, invited seminar) September 2018
- 2018 *Chasing Corals* film screening expert panel (UNC Chapel Hill) March 2018
- 2017 *Acidification and warming impair calcification and survivorship of Caribbean corals* (Boston University Marine Program, guest lecture webinar) December 2017
- 2017 *Acidification and warming impair calcification and survivorship of Caribbean corals* (Climate Change Working Group, US Coral Reef Task Force, invited webinar) March 2017

#### PRESENTATIONS (\* mentee)

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- 2022 Jiang AK\*, **Bove CB**, McNally EM, Ries JB, Davies SW. *Bored in a Changing Climate: Ocean Acidification and Boring Sponge Impact on Eastern Oyster Gene Expression*. ABRCMS. Anaheim, CA. November 2022. Poster Presentation.
- 2022 **Bove CB**, Pechenik JA, SW Davies. *Transcriptomic resilience of the winter-acclimated marine gastropod *Crepidula fornicata* under short-term elevated temperature stress*. Benthic Ecology Meeting. Portsmouth, NH, USA. March 2022. Oral Presentation.
- 2022 Agudo-Adriani E\*, **Bove CB**, O'Connor MI, Bruno JF. *Relationship between temperature and predation on a warming ocean*. Benthic Ecology Meeting. Portsmouth, NH, USA. March 2022. Oral Presentation.
- 2022 Romero IS\*, Brandt M, Garnica DF, Agudo-Adriani E, **Bove CB**, Bruno JF. *Top-Down and Bottom-Up Control in the Galápagos Upwelling System*. Benthic Ecology Meeting. Portsmouth, NH, USA. March 2022. Oral Presentation.
- 2021 **CB Bove**, SW Davies, JB Ries, J Umbanhowar, KD Castillo. *Physiological and transcriptomic responses of Caribbean corals under global change*. Society for Integrative and Comparative Biology. Washington, DC, USA. Oral Presentation.
- 2020 **CB Bove**, SW Davies, JB Ries, J Umbanhowar, KD Castillo. *Physiological and transcriptomic responses of Caribbean corals under global change*. 14th International Coral Reef Symposium. Bremen, Germany. Oral Presentation. *Delayed due to COVID-19*
- 2020 Christian T\*, Williams O\*, **Bove CB**, Castillo KD. *Impact of winter ocean warming and reduced food availability on calcification rates of the temperate coral *Oculina arbuscula**. 14th International Coral Reef Symposium. Bremen, Germany. Poster Presentation. *Delayed due to COVID-19*
- 2020 Baumann JH, **Bove CB**, Carne L, Gutierrez I, Castillo KD. *Back reef corals exhibit greater physiological plasticity under environmental variation than nearshore counterparts*. 14th International Coral Reef Symposium. Bremen, Germany. Oral Presentation. *Delayed due to COVID-19*
- 2020 **CB Bove**, SW Davies, JB Ries, J Umbanhowar, KD Castillo. *Physiological and transcriptomic responses of Caribbean corals under global change*. 14th International Coral Reef Symposium. Bremen, Germany. Oral Presentation. *Delayed due to COVID-19*

- 2020 **Bove CB**, Umbanhowar J, Castillo KD. *Meta-analysis reveals reduced coral calcification under projected ocean acidification and warming across the Caribbean*. Benthic Ecology Meeting. Wilmington, NC, USA. Oral Presentation. *Cancelled due to COVID-19*
- 2020 McCoppin J\*, Farquhar E,\* **Bove CB**, Castillo KD. *Assessing the Bleaching Response of Four Common Caribbean Corals and their Symbionts Using RGB Color Analysis*. Benthic Ecology Meeting. Wilmington, NC, USA. Oral Presentation. *Cancelled due to COVID-19*
- 2020 Oliveira K\*, **Bove CB**, Ries JB, Castillo KD. *Impacts of Global Climate Change on the Skeletal Morphology of the Caribbean coral *Siderastrea siderea* (Massive Starlet Coral)*. Benthic Ecology Meeting. Wilmington, NC, USA. Oral Presentation. *Cancelled due to COVID-19*
- 2020 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, McCoppin J\*, Farquhar E,\* Castillo KD. *Identifying physiological and transcriptomic responses of the coral host and algal endosymbionts of four Caribbean corals under global change*. Society for Integrative and Comparative Biology. Austin, TX, USA. Oral Presentation. January 2020
- 2019 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Castillo KD. *Ocean acidification and warming impact physiology of the algal symbiont to a greater extent than the host in four common Caribbean corals*. Benthic Ecology Meeting. St. John's, Newfoundland, Canada. Oral Presentation. April 2019
- 2019 McCoppin J\*, Farquhar E,\* **Bove CB**, Castillo KD. *Assessing the Bleaching Response of Four Common Caribbean Corals and their Symbionts Using RGB Color Analysis*. April 2019. Symbiofest. Athens, GA, USA. Oral Presentation.
- 2019 Oliveira K\*, **Bove CB**, Ries JB, Castillo KD. *Impacts of Global Climate Change on the Skeletal Morphology of the Caribbean coral *Siderastrea siderea* (Massive Starlet Coral)*. April 2019. Symbiofest. Athens, GA, USA. Oral Presentation.
- 2019 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Castillo KD. *Ocean acidification and warming impact physiology of the algal symbiont to a greater extent than the host in four common Caribbean corals*. Society for Integrative and Comparative Biology. Tampa, FL, USA. Oral Presentation. January 2019
- 2018 Thomasson B\*, **Bove CB**, Ries JB, Castillo KD. *Examining the combined effect of ocean acidification and warming on the skeletal morphology of *Siderastrea siderea**. April 2018. 6<sup>th</sup> UNC Climate Change Symposium. Chapel Hill, NC, USA. Poster Presentation.
- 2018 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Castillo KD. *Ocean acidification and warming impact physiology of the algal symbiont to a greater extent than the host in four common Caribbean corals*. Symbiofest. Athens, GA, USA. Oral Presentation. April 2018
- 2018 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Castillo KD. *Ocean acidification and warming impact physiology of the algal symbiont to a greater extent than the host in four common Caribbean corals*. Graduate Research and Policy Expo. Chapel Hill, NC, USA. Lightning Talk. April 2018
- 2018 **Bove CB**, Davies SW, Ries JB, Umbanhowar J, Castillo KD. *Ocean acidification and warming impact physiology of the algal symbiont to a greater extent than the host in four common Caribbean corals*. UNC E3P Research Symposium. Chapel Hill, NC, USA. Oral Presentation. March 2018
- 2017 **Bove CB**, Ries JB, Davies SW, Westfield IT, Castillo KD. *Acidification and warming impair calcification and survivorship of Caribbean corals*. 46<sup>th</sup> Benthic Ecology Meeting. Myrtle Beach, SC, USA. Oral Presentation. April 2017.
- 2017 Benson BE\*, Rippe JP, **Bove CB**, Castillo KD. *Apparent timing of *Siderastrea siderea* density banding in relation to colony growth and physiology*. April 2017. 46<sup>th</sup> Benthic Ecology Meeting. Myrtle Beach, SC, USA. Poster Presentation.
- 2017 Boulton J\*, Knowlton AC\*, Davies SW, **Bove CB**, Ries JB, Castillo KD. *Coral and associated symbiont physiologies are resilient to changes in pCO<sub>2</sub> but are negatively affected by temperature stress*. April 2017. 46<sup>th</sup> Benthic Ecology Meeting. Myrtle Beach, SC, USA. Poster Presentation.
- 2017 **Bove CB**, Ries JB, Davies SW, Westfield IT, Castillo KD. *Acidification and warming impair calcification and survivorship of Caribbean corals*. 5<sup>th</sup> Annual UNC Climate Change Symposium. Chapel Hill, NC, USA. Poster Presentation. March 2017.
- 2016 **Bove CB**, Ries JB, Davies SW, Westfield IT, Castillo KD. *Acidification and warming impair calcification and survivorship of Caribbean corals*. 13<sup>th</sup> International Coral Reef Symposium. Honolulu, HI, USA. Oral Presentation. June 2016.

- 2016 **Bove CB**, Ries JB, Davies SW, Westfield IT, Castillo KD. *Acidification and warming impair calcification and survivorship of Caribbean corals*. Symbiofest. University of Georgia, Athens, GA, USA. Oral Presentation. May 2016.
- 2016 **Bove CB**, Ries JB, Davies SW, Westfield IT, Castillo KD. *Acidification and warming impair calcification and survivorship of Caribbean corals*. ASLO Ocean Sciences Meeting. New Orleans, LA, USA. Oral Presentation. February 2016.
- 2016 Townsend, JE\*, **Bove CB**, Baumann J, Davies SW, Castillo KD. *The interactive effect of nutrients and salinity on corals from distinct thermal environments on the Belize Barrier Reef System*. February 2016. ASLO Ocean Sciences Meeting. New Orleans, LA, USA. Poster Presentation.
- 2015 **Bove CB**, Whitehead RF, Szmant AM. *Effects of seawater pH on the gastrovascular cavity of the corals *Montastraea cavernosa* and *Duncanopsammia axifuga*: Can corals counteract the effects of ocean acidification?* March 2015. Benthic Ecology Meeting. Quebec City, Canada. Oral Presentation.
- 2014 **Bove CB**, Whitehead RF, Szmant AM. *Effects of seawater pH on the gastrovascular cavity of the corals *Montastraea cavernosa* and *Duncanopsammia axifuga*: Can corals counteract the effects of ocean acidification?* April 2014. University of North Carolina at Wilmington Undergraduate Research Showcase. Wilmington, NC, USA. Poster Presentation.
- 2014 **Bove CB**, Whitehead RF, Szmant AM. *Effects of seawater pH on the gastrovascular cavity of the corals *Montastraea cavernosa* and *Duncanopsammia axifuga*: Can corals counteract the effects of ocean acidification?* April 2014. Colonial Academic Alliance Undergraduate Research Conference. Baltimore, MD, USA. Oral Presentation.
- 2014 **Bove CB**, Whitehead RF, Szmant AM. *Effects of seawater pH on the gastrovascular cavity of the corals *Montastraea cavernosa* and *Duncanopsammia axifuga*: Can corals counteract the effects of ocean acidification?* March 2014. Benthic Ecology Meeting. Jacksonville, FL, USA. Poster Presentation.
- 2013 **Bove CB**, Whitehead RF, Szmant AM. *Effects of seawater pH on the gastrovascular cavity of the corals *Montastraea cavernosa* and *Duncanopsammia axifuga*: Can corals counteract the effects of ocean acidification?* April 2013. University of North Carolina at Wilmington Undergraduate Research Showcase. Wilmington, NC, USA. Poster Presentation.

## PROFESSIONAL AFFILIATIONS

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2018 – Present	Society for Integrative and Comparative Biology (SICB) Member
2016 – 2022	International Coral Reef Society (ICRS) Member
2012 – Present	American Academy of Underwater Science (AAUS) Scientific Diver

## OUTREACH

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2022	GROW Program Seminar Speaker for summer high school young women ( <i>Getting the word out: How to publish an academic paper</i> )
2022	Boston Public Schools Microbiome Outreach Day
2019	Field Notes; climate change photography exhibition; VAE, Raleigh, NC
2018 – 2019	UNC Ecology Seminar Series Planning Co-Chair
2017 – 2019	UNC Ecology Seminar Series Planning Committee Member
2016 – 2017	Blogger, Under the C graduate student Marine Sciences Blog
2016	Girls Advancing in STEM (GAINS); Chapel Hill, NC
2016, 2017	UNC Science Expo; Chapel Hill, NC
2015 – 2020	Undergraduate Student Mentor
2015 – 2018	NC School of Science and Math High School Mentor
2015	Northeastern Marine Science Center Open House; Nahant, MA
2015	SciREN Coast Networking Workshop; Pine Knoll Shores, NC
2014	SciREN Triangle Networking Workshop; Raleigh, NC



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