

**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

## PUBLICATIONS (\* Undergraduate mentee; \* Senior and corresponding author)

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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**

10. **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*. (In Review at *PLOS One*; preprint available: <https://doi.org/10.1101/2021.07.13.452173>)
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*. (In Review at *Journal of Marine Science and Engineering*)

#### **PUBLICATIONS IN PREPARATION**

13. **Bove CB**, Castillo KD, Ries JB, Davies SW. **Siderastrea siderea* host gene expression and holobiont phenotype is driven by dominant Symbiodiniaceae genus*.
14. **Bove CB**, Pechenik JA, Davies SW. *Transcriptomic resilience of the winter-acclimated marine gastropod *Crepidula fornicata* under short-term elevated temperature stress*
15. 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*.
16. Rippe JP, Baumann JH, **Bove CB**, Aichelman HA, Davies SW, Castillo CD. *Modern reversal of coral growth-climate connection*.
17. Castillo KD, Davies SW, **Bove CB**, Ries JB. *Local Adaptation and transcriptomic plasticity of a resilient Caribbean coral*.
18. Greene K, Sugierski S, Kriefall NG, **Bove CB**, Huzar A, Hughes A, Sharp K, Fogarty ND, Davies SW. *Interactive effects of microplastics and climate change stressors on gene expression in the endangered Caribbean coral *Acropora cervicornis**.

#### **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>

#### **EXPERIENCES**

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|--------------------|---|
| <b>2020 – 2021</b> | <b>Statistics and Visualization Consultant</b> University of North Carolina at Chapel Hill<br>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. |
| <b>2019 – 2022</b> | <b>R Programming Contractor</b> CISME Instruments, LLC, Wilmington, NC<br>Write R software program to analyze data output from CISME device for Photosynthesis-Irradiance curves. CISME is now sold by Qubit Systems ( <a href="http://qubitbiology.com/cisme/">qubitbiology.com/cisme/</a> ).  |

**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

**TEACHING / MENTORING EXPERIENCE**

- 2022 BU Bioinformatics BRITE (Bioinformatics Research and Interdisciplinary Training Experience) REU student mentor (Angela Jiang)
- 2022 BU GROW (Greater Boston Research Opportunities for Young Women) mentor of two high school students
- 2021 Readings in Biology Instructor/Advisor, Boston University (**Instructor on record**)
- 2021 Biology of Global Change Lecturer, Boston University (**Instructor on record**)
- 2020 – 2021 Human and Systems Physiology Teaching Fellow, Boston University
- 2018 – 2020 UNC Undergraduate Honors Thesis Mentor (Bailey Thomasson, 2018 – 2019; Kyle Oliveira, 2019 – 2020; Jess McCoppin, 2020 – 2021)
- 2015– 2020 UNC Undergraduate Guest Lecturer (ENEC/MASC 450 - Biogeochemical Processes, MASC 441 - Marine Physiological Ecology, MASC 101 - The Marine Environment, MASC401/BIOL350/ENVR417 – Introduction to Oceanography, ENEC 295 – Coral Reef Ecology and Management)
- 2015 – 2020 UNC Undergraduate Research Volunteer Mentor (Bailey Thomasson, Brooke Benson, Kathryn Cobleigh, Lauren Winbourne, Brigitte Butler, Joseph Townsend, Cori Lopazanski, Meghan Gore, Brad Kotlarz, Zoe Sparks, Kyle Oliveira, Jess McCoppin, Liz Farquhar)

- 2016 – 2019 UNC MASC 395 Student Mentor (Bailey Thomasson, Lauren Winbourne, Brigitte Butler, Forrest Buckthal)
- 2016 – 2019 Teaching Assistant, University of North Carolina at Chapel Hill (*Introduction to Environment and Society, Coral Reef Ecology + Management, Conservation Biology, Conservation Biology, Ecology and Evolution*)
- 2016 – 2018 Lead Teaching Assistant, University of North Carolina at Chapel Hill (*Introduction to Environment and Society*)
- 2015 – 2019 NCSSM High School Mentor

### **UNDERGRADUATE HONORS THESES ADVISED**

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- 2020 – 2021 Jess McCoppin: *Impact of predicted end-of-century temperature on calcification and tissue color of the temperate coral, *Oculina arbuscula** (UNC Chapel Hill)
- 2019 – 2020 Kyle Oliveira: *Examining the independent and combined effects of ocean warming and acidification on the corallite morphology of the Caribbean coral *Siderastrea siderea** (UNC Chapel Hill)
- 2018 – 2019 Bailey Thomasson: *Impacts of global climate change on the skeletal morphology of the Caribbean coral *Siderastrea siderea* over time* (UNC Chapel Hill)

### **AWARDS AND HONOURS**

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- 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: 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*

### **DIVERSITY, EQUITY, JUSTICE, AND INCLUSION**

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

- 2021 – Present *Boston University Committee on Sexual Assault and Harassment Prevention*; member
- 2021 – Present *Boston University Biology Antiracism Committee*; member
- 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 – Present *Society for Women in Marine Science (SWMS)*; mentor
- 2018 – 2021 *UNC Chancellor Science Scholar*; undergraduate student mentor

## INVITED SEMINARS AND LECTURES

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- 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 (\* Undergraduate mentee)

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- 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*. 13th 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 (Lead diver, over 100 logged dives)
2012 – Present	Divers Alert Network (DAN) Member (Diving First Aid for Professional Divers certification)

## OUTREACH

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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

**PROFESSIONAL WORKSHOPS**

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July 2018      Methods in Ecological Genomic Analysis (Functional genomics and gene network analysis with TagSeq workshop led by Misha Matz)

## REFERENCES

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**Sarah Davies, Ph.D.**

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**Karl Castillo, Ph.D.**

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**Justin Ries, Ph.D.**

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