

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

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EDUCATION

- 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

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

SUMMARY OF ACADEMIC ACTIVITY

- 10 semesters of teaching experience (teaching assistant and instructor on record)
- 12 publications in peer-reviewed journals
- Total citations: 139, h-index: 6 (source: [google scholar](https://scholar.google.com/citations?user=...))

PUBLICATIONS (* Undergraduate mentee; * Senior and corresponding author; † co-first authors)

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 pCO₂ 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

13. **Bove CB**, Ingersoll MV, Davies SW. *Help Me, Symbionts, You're My Only Hope: Approaches to Accelerate Our Understanding of Coral Holobiont Interactions*. (Invited perspective; *In Press at Integrative and Comparative Biology*; preprint available: <https://doi.org/10.20944/preprints202207.0306.v1>)
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**[†], Castillo KD[†], 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>

EXPERIENCES

- 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/).

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)
2016 – 2019	UNC MASC 395 Student Mentor
2016 – 2019	Teaching Assistant, University of North Carolina at Chapel Hill (<i>Introduction to Environment and Society, Coral Reef Ecology + Management, Conservation Biology, Conservation Biology, Ecology and Evolution</i>)
2016 – 2018	Lead Teaching Assistant, University of North Carolina at Chapel Hill (<i>Introduction to Environment and Society</i>)
2015 – 2019	NCSSM High School Mentor

MENTORSHIP

2022 – Present	Emilee Redshaw	Undergraduate Student
2022 – Present	Audrey Wong	Undergraduate Student
2022 – Present	Annabel Hughes	Undergraduate / Lab Technician
Summer 2022	Angela Jiang	Undergraduate REU Student
Summer 2022	Sarah Soroca	High School Student
Summer 2022	Sara Medina	High School Student
2021 – Present	Alexa Huzar	Lab Technician
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

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)

AWARDS AND HONOURS

2021	Dr. Oboh-Weilke Postdoctoral Travel Award (\$1,250)
2019	48 th Benthic Ecology Meeting 2 nd 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 4th 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

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

- 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 *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*

INVITED SEMINARS AND LECTURES

- 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 **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. 6th 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*. 46th 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. 46th 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 pCO₂ but are negatively affected by temperature stress*. April 2017. 46th 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*. 5th 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

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

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

REFERENCES

Sarah Davies, Ph.D.

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John Bruno, Ph.D.

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