



# ANJALI D. BOYD

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## EDUCATION

- 2020-Present **PhD**, Duke University, Marine Science and Conservation  
Dissertation title: *“Novel pathways of top-down control of seagrass ecosystems”*
- 2019 **Bachelor of Science**, Eckerd College  
Major: Marine Science (Biology Track)  
Education Abroad: Cuba, Costa Rica, Spain, Panama, & Bahamas  
Undergraduate Thesis title: *“The effects of tropical cyclones on soundscapes and marine organisms of the west Florida shelf (Gulf of Mexico)”*

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## PROFESSIONAL APPOINTMENTS

- 2023 Ernst Mayr Research Fellow, Smithsonian Tropical Research Institute
- 2022-Current Graduate Research Fellow, National Science Foundation (NSF GRFP)
- 2022-Current Ford Predoctoral Fellow, Ford Foundation, National Academies of Sciences, Engineering, and Medicine
- 2021-2022 Appointed Member, Committee on Cross-Cutting Themes for U.S. Contributions to the Ocean Decade, National Academies of Sciences, Engineering, and Medicine
- 2021-Current Early Career Liaison, U.S. National Committee for United Nation Decade of Ocean Science for Sustainable Development, National Academies of Sciences, Engineering, and Medicine
- 2020-Current Dean’s Graduate Fellow, Duke University
- 2020-Current District Supervisor (Elected), Durham County Soil and Water Conservation District
- 2020-2021 Appointed Member, Ecological Society of America Diversity, Equity, Inclusion and Justice (DEIJ) Taskforce
- 2017-2019 NOAA Hollings Scholar, Advisors: Dr. Ken Riley and Dr. Brian Silliman

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## PUBLICATIONS (\*) Denotes an undergraduate student.

6. Traylor-Knowles N, **Boyd AD**, Silva AB, Davis A, Mantega C, Scott C, Callwood K, and Moreno V. Submitted. The experiences and support systems for Black women in ecology, evolution, and marine science. *Nature Ecology & Evolution*.



Marine Ecologist. Educator. Entrepreneur. Elected Official.

5. Morton J, DeLaMater DS, Atkins RL, Prince KD, Williams SL, **Boyd AD**, Parsons J, Resertarts EJ, Monnet E, Mobilian C, Smith D, Craft C, Alber M, Farhan R, Byers JE, Angelini C, Pennings SC, and Silliman BR. Submitted. Predator exclusion generates cascading impacts and compensatory facilitation in a Georgia, USA, salt marsh. *Ecology*.
4. Rogers R\*, Brenner C, Morton JP, **Boyd AD**, and Silliman BR. Submitted. Predator cues facilitate ecosystem function by suppressing density dependent impacts of ectoparasites. *Biology Letters*.
3. **Boyd AD**, Walker N, Valdez S, Zhang S, Altieri A, Gulis V, Crain C, and Silliman BR. 2022. Invertebrate grazing on live turtlegrass (*Thalassia testudinum*): a common interaction that can facilitate fungal infection. *Frontiers in Marine Science*; 8, e0789380.
2. **Boyd AD**, Mann D, Gowans S, and Simard P. 2021. Tropical Storm Debby: Soundscape and fish sound production in Tampa Bay and the Gulf of Mexico. *PLOS ONE*; 16(7), e0254614.
1. **Boyd AD**, Fisher K, Lamb-Wotton L, and Crystal-Ornelas R. 2020. Human Dimensions: The ESA student section. *Bulletin of the Ecological Society of America*; 102(1), e01812.

## REPORTS

1. Mayer L,... **Boyd AD**,... Winokur R. Cross-Cutting Themes for U.S. Contributions to the UN Ocean Decade. 2022. *The National Academies of Sciences, Engineering, and Medicine*.

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## GRANTS

**Grant total = \$25,034** | (\*) Indicates a grant written in collaboration with an undergraduate.

\$3,400	Smithsonian Tropical Research Institute (2023): ‘Density-Dependent Effects of Snails on Microbial Infection and Growth in Turtle Grass, <i>Thalassia testudinum</i> .’ – AD Boyd (PI)
\$3,000	Joseph S. Ramus Endowment Fund (2022): ‘Impacts of Spatial Variability of Seagrass Ecosystems on North Carolina Fisheries.’ – AD Boyd (PI)
\$5,000	Lewis and Clark Fund for Exploration and Field Research (2022): ‘Effects of Top Predator Decline and Nutrient Pollution on Coastal Ecosystem Structure.’ – AD Boyd (PI)
\$2,500	Women Divers Hall of Fame Susan L. Williams Memorial Fellowship in Seagrass Rehabilitation Grant (2022): ‘Incorporating Species-Interactions into Seagrass Restoration Practices to Improve Survival Rate.’ – AD Boyd (PI)
\$400*	Duke Undergraduate Research Support (URS) Independent Study Grant (2022): ‘Novel Interactions: Shrimp Top-Down Control of Seagrass Ecosystems’ – AD Boyd (PI) and Madison Griffin (Co-author and undergraduate researcher)
\$385*	Duke Undergraduate Research Support (URS) Independent Study Grant (2021): ‘Variation in Elasmobranch Density and Size at NC Sandy Beach Coast and Salt Marsh Edge’ – AD Boyd (PI) and Flo Cordova-Dickerson (Co-author and undergraduate researcher)



\$399.92*	Duke Undergraduate Research Support (URS) Independent Study Grant (2021): ‘Effect of Predation on Marine Invertebrate Community Composition in NC Seagrass Systems’ – AD Boyd (PI) and Caroline Fiore (Co-author and undergraduate researcher)
\$350*	Duke Undergraduate Research Support (URS) Independent Study Grant (2021): ‘Mesopredator Impacts on Coastal Foundation Species’ – AD Boyd (PI) and Ryan Rogers (Co-author and undergraduate researcher)
\$3,000	Joseph S. Ramus Endowment Fund (2021): ‘Cascading Implications of Mesopredator Populations on Marine Ecosystems and Foundation Species.’ – AD Boyd (PI)
\$7,000	Longboat Key Garden Club (2018): ‘The Effects of Tropical Cyclones on Soundscapes and Marine Organisms of the West Florida Shelf (Gulf of Mexico)’ – AD Boyd (PI)

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## FELLOWSHIPS AND SCHOLARSHIPS

**Fellowship total = \$271,000 | Scholarship total = \$110,533**

2023	Smithsonian Tropical Research Institute Ernst Mayr Fellowship (\$3,000)
2022-Current	National Science Foundation Graduate Research Fellowship Program (\$102,000 over three years)
2022-Current	Ford Predoctoral Fellowship (\$81,000 over three years)
2020-2021	DukeEngage Fellowship (\$2,000)
2020-Current	Duke University Dean’s Graduate Fellowship (\$81,000 over four years)
2018	Davis Island Fishing Foundation Don Eury Scholarship (\$1,000)
2017-2019	NOAA Hollings Scholar (\$26,000 over two years)
2017-2018	Eckerd College Dr. Walter Walker Annual Scholarship (\$4,587)
2017	Duke University Marine Lab’s Marine Science and Conservations Scholarship
2016-2018	Eckerd College Raymond James & Associates Scholarship (\$12,946)
2016-2017	Eckerd College K&J Johnson Family Annual Scholarship (\$10,000)
2015-2016	Eckerd College Florence Gabusile Hlophe Memorial Annual Scholarship (\$5,000)
2015-2018	Eckerd College Presidential Scholar (merit based, \$51,000)

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## AWARDS & HONORS

2021	Ford Pre-Doctoral Fellowship, Alternate and Honorable Mention
2020	NSF Graduate Research Fellowship Program, Honorable Mention
2019	NOAA Population and Ecosystem Science Quantitative Workshop, Invited Attendee



Marine Ecologist. Educator. Entrepreneur. Elected Official.

2019	Eckerd College Marine Science Outstanding Contribution to the Major Award
2019	Eckerd College Organization of Students Social Justice Award
2019	Omicron Delta Kappa
2019	Ecological Society of America Travel Grant
2019	Ecological Society of America SEEDS Alumni Travel Award
2019	Association for the Sciences of Limnology and Oceanography Travel Award
2018	Ecological Society of America SEEDS Spring Field Trip
2018	Ecological Society of America SEEDS Student Travel Award
2017 & 2018	Association for the Sciences of Limnology and Oceanography Multicultural Program
2017 & 2018	Society of Wetland Scientists Multicultural Program
2017	Coastal and Estuarine Research Federation Rising TIDES Mentoring Program

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## INVITED TALKS AND PANELS

2022	<b>Eckerd College:</b> Marine Science Club Oral Presentation. <i>“Thinking OUTside: Actualizing the Eckerd Slogan and Becoming a Marine Ecologist, Educator, Entrepreneur &amp; Elected Official.”</i>
2022	<b>National Academies of Science, Engineering, and Medicine:</b> U.S. National Committee for the Ocean Decade for Sustainable Development Panel and Oral Presentation. <i>“Cross-Cutting Collaboration: The U.S. National Committee for the UN Decade of Ocean Science &amp; Sustainable Development.”</i>
2021	<b>Ecological Society of America:</b> Success Stories from the ESA SEEDS Program... 25 Years Later Panel and Oral Presentation. <i>“Making Science Diverse, Equitable, Inclusive, and Accessible: Going from an ESA SEEDS Student to an Elected Official.”</i>
2021	<b>Ecological Society of America:</b> Diversity and Inclusion Luncheon Panel. <i>“Roundtable: Collaborations Across ESA Programs to Advance Science, Education and Diversity”</i>
2021	<b>NOAA Oceanic and Atmospheric Research and National Academies of Science, Engineering, and Medicine:</b> Capitol Hill Ocean Week 2021 Panel. <i>“Community Discussion on Building Diversity in the UN Decade of Ocean Science”</i>
2021	<b>Smithsonian Marine Station:</b> Marine Science in the Morning Oral. <i>“Did You Hear That? Assessing Ocean Health Through Sound”</i>
2021	<b>National Academy of Science, Engineering, and Medicine:</b> 22 <sup>nd</sup> Annual Roger Revelle Lecture Panel. <i>“The Next Wave: A Generational Shift in Ocean Sustainability”</i>



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2021 **North Carolina State University:** Wetland Science and Management (NR 595)  
Oral. *“Scientists in Government: Developing Science-Based Community Centered Solutions for Natural Resource Conservation and Management”*

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## RESEARCH EXPERIENCE

2019 Intern, Scripps Acoustic Ecology Laboratory, La Jolla, CA  
2018-2019 Senior Thesis Researcher, Eckerd College Dolphin Project, St. Petersburg, FL  
2017 Student Researcher, Duke University Marine Lab, Beaufort, NC  
2017 Student Research Assistant, Marine Research in Cuba, Havana, Cuba  
2016-2017 Student Researcher, Eckerd College Dolphin Project, St. Petersburg, FL  
2016-2017 Intern, Wetland Restoration Laboratory, St. Petersburg, FL  
2016 Intern, Research Experiences for Undergraduates (REU), Princess Anne, MD

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## TEACHING EXPERIENCE

### GUEST LECTURES

2020 **Biology 273L - Marine Ecology**, Duke University  
Presentation: *“Ecosystem Restoration: Exemplifying the Difficulty of Combating Systemic Racism”*

### OTHER TEACHING EXPERIENCE

2017 Science Instructor, iNviTECH STEM Camp, Durham, NC  
2017 Teaching Assistant, Johns Hopkins Center for Talented Youth, Los Angeles, CA

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## MENTORING EXPERIENCE

2019, 2020 & 2022 Annual Meeting Alumni Mentor, Ecological Society of America SEEDS  
2018 Annual Meeting Mentor, Society of Wetland Scientists Multicultural Program

### MENTEE DEMOGRAPHICS STATISTICS

- 38 undergraduates, three master’s students and one high school student.
- Four colleges and universities represented among students.
- 95% of students identify as female.
- 26% of students identify as an underrepresented minority (e.g., Black or African American, Latinx or Hispanic, Indigenous, Pacific Islander).



## MENTEE RESEARCH OUTPUT STATISTICS

- 1 undergraduate thesis student
- 5 undergraduate research independent study students
- 3 presentations at scientific conferences and symposiums
- 6 Duke Undergraduate Research Independent Study Grant recipients (each grant=\$350-400)

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## CONFERENCE ACTIVITY

### PRESENTATIONS

**Boyd AD**, Walker N, Valdez S, Zhang S, Altieri A, Gulis V, Crain C, and Silliman B. 2022.

Invertebrate grazing on live turtlegrass (*Thalassia testudinum*): a common interaction that can facilitate fungal infection. *Ecological Society of America* (August 2022); Montréal, Québec, Canada. **Oral.**

**Boyd AD**. Making Science Diverse, Equitable, Inclusive, and Accessible: Going from an ESA SEEDS Student to an Elected Official. *Ecological Society of America* (August 2021); Virtual. **Oral.**

**Boyd AD**, Mann D, Gowans S, and Simard P. The effects of tropical cyclones on soundscapes and marine organisms of the west Florida shelf (Gulf of Mexico). *Eckerd College Undergraduate Thesis Defense* (February 2019); St. Petersburg, FL. **Oral.**

**Boyd AD**, Zhang S, Silliman BR, and Riley K. A Food-Web Approach to Seagrass Conservation. *Association for the Sciences of Limnology and Oceanography* (February 2019); San Juan, PR. **Oral.**

**Boyd AD**, Orihuela B, and Rittschof D. Acute toxicity of stainless-steel versus plastic on barnacle larvae survivorship. *Ecological Society of America* (August 2018); New Orleans, LA. **Oral.**

**Boyd AD**, Zhang S, Silliman BR, and Riley K. A Food-Web Approach to Seagrass Conservation. *NOAA Science and Education Symposium* (July 2018); Silver Springs, MD. **Oral.**

**Boyd AD**, Orihuela B, and Rittschof D. Acute toxicity of stainless-steel versus plastic on barnacle larvae survivorship. *11th Annual Eckerd College Student Research Symposium* (April 2018); St. Petersburg, FL. **Oral.**

**Boyd AD**, McKean S, Mann D, Stallings C, Gowans S, and Simard P. Soundscape analysis of the west Florida shelf (Gulf of Mexico). *Association for the Sciences of Limnology and Oceanography* (February 2018); Portland, OR. **Poster.**

**Boyd AD**, McKean S, Mann D, Stallings C, Gowans S, and Simard P. Soundscape analysis of the west Florida shelf (Gulf of Mexico). *Coastal and Estuarine Research Federation Biennial Conference* (November 2017); Providence, RI. **Poster.**

**Boyd AD**, McKean S, Mann D, Stallings C, Gowans S, and Simard P. Soundscape analysis of the west Florida shelf (Gulf of Mexico). *10th Annual Eckerd College Student Research Symposium* (April 2017); St. Petersburg, FL. **Poster.**



**Boyd AD, Orihuela B, and Dias H.** Juvenile blue crabs (*Callinectes sapidus*) response to visual and chemical cues with changes in acidity. *Duke University Fall Independent Research Study Symposium* (December 2017); Beaufort, NC. **Oral.**

**Boyd AD, Schweitzer C, and Stevens B.** Size distribution of black sea bass at artificial and natural reefs. *Society of Wetland Scientists Annual Meeting* (June 2017); San Juan, Puerto Rico. **Poster.**

**Boyd AD, Schweitzer C, and Stevens B.** Size distribution of black sea bass at artificial and natural reefs. *Association for the Sciences of Limnology and Oceanography* (February 2017); Honolulu, Hawaii. **Poster.**

**Boyd AD, Schweitzer C, and Stevens B.** Size distribution of black sea bass at artificial and natural reefs. *Annual University of Maryland Easter Shore REU Symposium* (August 2016); Princess Anne, MD. **Poster and Oral.**

**Boyd AD, Gallagher C, Evans B, Sullivan E, Olson C, Szlamnik N, Mann D, Stallings C, and Simard P.** Does habitat association of dolphins differ between artificial and natural reefs. *9th Annual Eckerd College Student Research Symposium* (April 2017); St. Petersburg, FL. **Poster.**

## ORGANIZED CONFERENCES & SYMPOSIUM

2020 Society of Wetland Scientists Student Section Virtual Conference (2-day)

## ORGANIZED WORKSHOPS

2021 Diverse Leadership in Ecology: Expanding Your Influence and Generating a Leadership Network, *Ecological Society of America*

2021 Exchanging Best Practices to Advance Diversity, Equity, Inclusion and Justice (DEIJ) in ESA and Our Institutions, *Ecological Society of America*

2020 Maximizing Your 2020 Meeting Experience: Orientation and Networking for Student Attendees, *Ecological Society of America*

2019 Non-Traditional Postdocs: A Panel Discussion on Interdisciplinary Postdoc Opportunities, *Ecological Society of America*

2019 The Gap Year: All You Need to Know About Taking A Gap Year, *Ecological Society of America*

2019 Maximizing Your 2019 Meeting Experience: Orientation and Networking for Student Attendees, *Ecological Society of America*

2017 Resources for Students in the Natural and Aquatic Sciences, *Society of Wetland Scientists*

## ORGANIZED SPECIAL SESSIONS & MIXERS

2022 Rethinking Environmental Covariates: How issues of Environmental Justice Shape Ecological Phenomena, *Ecological Society of America*

2020 Opportunity Fair, *Society of Wetland Scientist Student Section Virtual Conference*

2020 Student Networking: Tips for making productive connections at ESA 2020!, *Ecological Society of America*



- 2020 COVID-19: Impacts on Education from a Student Perspective, *Ecological Society of America*
- 2020 Student Section Mixer, *Ecological Society of America*
- 2019 Student Networking: Tips for making productive connections at ESA 2019!, *Ecological Society of America*
- 2019 Student Section Mixer, *Ecological Society of America*

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## PROFESSIONAL ACTIVITIES

### UNIVERSITY

- 2022-Current PhD Collaborator, Coral Restoration Team – DukeRestore
- 2021-Current PhD Collaborator, Seagrass Farm Team – DukeRestore
- 2020-2021 Appointed Member, Duke and Durham Today and Tomorrow Strategic Taskforce – Duke University Board of Trustees  
Meaningful Engagement Standing Committee
- 2017-2018 President, Eckerd College Student Alumni Ambassadors
- 2017-2018 Student Representative, Eckerd College Natural Sciences Collegium Senate
- 2017-2018 Founder and Editor-in-Chief, Eckerd College Feedback Magazine
- 2015-2017 President and Founder, Marine Science Club
- 2015-2017 Committee Member, Eckerd College Environmental Responsibility Committee

### DEPARTMENTAL

- 2022-Current Frist Year Liaison and Orientation Coordinator, Marine Science and Conservation Department, Duke University
- 2021-2022 PhD-CEM (Coastal Environmental Management Master's Program) Liaison, Marine Science and Conservation Department, Duke University

### SCIENTIFIC COMMUNITY

- 2022-Current Committee Chair, Black Women in Ecology, Evolution, and Marine Science Advancement and Development Committee
- 2021-2022 Appointed Member, Committee on Cross-Cutting Themes for U.S. Contributions to the Ocean Decade, National Academies of Sciences, Engineering, and Medicine
- 2021-Current Board of Directors, Black Women in Ecology, Evolution, and Marine Science
- 2021-2022 Committee Chair, Black Women in Ecology, Evolution, and Marine Science Virtual Events Committee
- 2021-Current Early Career Liaison, National Academies of Sciences, Engineering, and Medicine's U.S. National Committee for United Nation Decade of Ocean Science for Sustainable Development



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2016 Student Representative, Audubon Florida's 2016 Conservation Leadership Initiative

### PROFESSIONAL SOCIETIES

2020-2021 Appointed Member, Ecological Society of America Diversity, Equity, Inclusion and Justice (DEIJ) Taskforce.

2019-2021 Committee Member, Ecological Society of America Committee on Diversity and Education

2019-2020 Student Section Chair, Ecological Society of America

2018-2020 Committee Member, Ecological Society of America Publication Committee

2018-2019 Committee Member, Ecological Society of America Meetings Committee

2018-2019 Student Section Vice-Chair, Ecological Society of America

2018-2021 Student Section Treasurer and Secretary, Society of Wetland Scientists

2018-2019 Committee Member, Coastal and Estuarine Research Federation Broadening Participation Committee

### LOCAL COMMUNITY

2020-Current District Supervisor (Elected), Durham County Soil and Water Conservation District

2020-2021 Member, Durham People's Alliance Environment and Climate Justice

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## EDUCATION AND OUTREACH

2020-Current Director, iNviTECH, Durham, NC

2020 Program Coordinator, DUML Community Science Initiative, Durham, NC

2019-2020 Director of Instruction & Curriculum Development, iNviTECH, Durham, NC

2018-2020 Program Coordinator, iNviTECH, Durham, NC

2019 Curriculum Developer, Neal Middle School, Durham, NC

2017-2018 Intern, Duke University Marine Lab Community Science Initiative, Beaufort, NC

2015-2016 Community Tutor, Eckerd College Office of Service Learning, St. Petersburg, FL

### INVITED PRESENTATIONS

2021 **DukeBOOST Program**, Durham NC  
Topic: Pathway to Becoming a Marine Scientists and Elected Official

2020 **Charles E. Jordan High School**, Durham NC  
Topic: Careers in Marine Science



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## CERTIFICATIONS

- CPR, First Aid and O2, *DAN*
- Scientific Diver, *AAUS*
- Nitrox SCUBA Diver, *TDI*
- Advanced Open Water Diver, *SDI*
- Open Water Diver, *SSI*
- NC & FL Boating License



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