

Emily M. Fuqua
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EDUCATION

2025 Ph. D. Biology, Florida State University
2019 M. Sc. Marine Biology, University of Charleston, SC
2016 B.S. Marine Biology, Auburn University

APPOINTMENTS

2024-2026 Research Assistant & Co-Principal Investigator, Florida State University
Department of Biological Science, Florida State University Coastal and Marine
Laboratory.
2021-2024 Research Assistant, Florida State University Department of Biological Science,
Florida State University Coastal and Marine Laboratory
2020-2021 Teaching Assistant, Florida State University Department of Biological Science
2019-2020 Adjunct Faculty, Calhoun Community College
2017-2019 Research Assistant, South Carolina Department of Natural Resources, Mariculture
Division
2017 Research Assistant, South Carolina Department of Natural Resources Inshore
Fisheries
2018-2018 Teaching Assistant, College of Charleston

PUBLICATIONS

Fuqua, E. & S. Brooke. Living with the past: larval eastern oyster (*Crassostrea virginica* [Gmelin, 1979]) culture salinity affects post-metamorphic physiological performance. Conservation Physiology 13(1): coaf1077. <https://doi.org/10.1093/conphys/coaf077>
Fuqua, E., & S. Brooke. 2025. Salinity and temperature tolerance of eastern oyster (*Crassostrea virginica*) larvae from the Northwest Coast of Florida. Journal of Shellfish Research 44(2): 261-269. DOI: 10.2983/035.044.0209.

GRANTS AND FELLOWSHIPS

2025. Brooke, S., and **E. Fuqua**. "Integrating oyster farmers into habitat restoration in the Florida Panhandle." Project Extension. The Nature Conservancy & the Pew Charitable Trusts, SOAR Shellfish Resiliency Fund Program. **\$5,000.**

2025. **Fuqua, E.** Florida State University Coastal and Marine Laboratory Graduate Research Boating Access Fund. **\$1,000.**
2024. **Fuqua, E.,** and S. Brooke. "Impacts of carry-over effects on crop dynamics in the eastern oyster, *Crassostrea virginica*. Florida Aquaculture Review Council. **\$69,000.**
2024. Brooke, S., and **E. Fuqua.** "Integrating oyster farmers into habitat restoration in the Florida Panhandle." The Nature Conservancy & the Pew Charitable Trusts, SOAR Shellfish Resiliency Fund Program. **\$20,000.**
2024. **Fuqua, E.** Southern Association of Marine Laboratories Travel Grant. **\$500.**
2023. **Fuqua, E.** Florida State University Coastal and Marine Laboratory Board of Trustees Grant. **\$2,500.**
2019. **Welling, E.** Southern Association of Marine Laboratories Travel Grant. **\$200**
2018. **Welling, E.** Presidential Summer Research Award in Marine Biology, College of Charleston. **\$3,975.**
2018. **Welling, E.** Graduate Program in Marine Biology Travel Grant, College of Charleston. **\$450.**
2018. **Welling, E.** Graduate School Travel Grant, College of Charleston. **\$500.**
2017. **Welling, E.** Presidential Summer Research Award in Marine Biology, College of Charleston. **\$3,975.**
2017. **Welling, E.** Graduate Program in Marine Biology Travel Grant, College of Charleston. **\$450.**

OUTREACH AND PROFESSIONAL SERVICE

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| 2024-2026 | Graduate Student Recruit Co-Chair, National Shellfisheries Association |
| 2024-2025 | Aquaculture 2025 Student Steering Committee |
| 2023 | National Shellfisheries Association Session Co-Chair, National Shellfisheries Association Annual Conference |
| 2022 | Aquaculture Lunch Seminar Series, Organizer and coordinator. Florida State University Coastal and Marine Laboratory. |
| 2021-2022 | Apalachicola Bay System Initiative Aquaculture Internship Program, Coordinator and supervisor of interns. Florida State University Coastal and Marine Laboratory. |

HONORS AND AWARDS

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| 2021 | Outstanding Teaching Assistant Award Nominee, Florida State University |
| 2017 | Best Student Poster Award, Runner-up, College of Charleston Student Research Symposium . |
| 2017-2018 | Presidential Summer Research Award in Marine Biology, College of Charleston |

PRESENTATIONS

2026. **Fuqua, E., S. Brooke.** “Integrating oyster farmers into habitat restoration in the Florida Panhandle.” In From Farm to Reef – Lessons from SOAR Resiliency Fund Projects Panel. OysterSouth Symposium 2026.
2026. **Fuqua, E.** Lessons learned and pearls of wisdom from the Bay: oyster restoration in Apalachicola. ANERR SciCafe Virtual Series. **Invited Speaker.**
2026. Horn, N., **E. Fuqua**, S. Hartsfield, S. Brooke. Evaluating experimental materials in restoration of highly degraded oyster habitat in Apalachicola Bay, Florida. ANERR State of the Watershed: Threats, Challenges, and Opportunities Symposium.
2025. **Fuqua, E.** Getting salty: salinity response of oysters from Apalachicola Bay, FL and implications for restoration. Ecology and Evolution Seminar Series, Department of Biological Sciences, Florida State University. **Invited speaker.**
2025. **Fuqua, E., S. Brooke.** Integrating oyster farmers into oyster habitat restoration in the Florida Panhandle. **Aquaculture 2025.** Poster Presentation.
2024. **Fuqua, E., M. Hawkins.** Seas the Day: Restoring Shellfish, Restoring Coasts. Florida State University Coastal and Marine Laboratory Conservation Lecture Series. **Invited Speaker.**
2024. **Fuqua, E., S. Brooke.** Blame it on your childhood: larval culture salinity affects growth of post-metamorphosed spat in *Crassostrea virginica*. International Conference for Shellfish Restoration Annual Conference.
2024. **Fuqua, E., S. Brooke.** Panel member for the Supporting Oyster Aquaculture and Restoration Resiliency Fund (SOAR) Panel. International Conference for Shellfish Restoration Annual Conference.
2024. **Fuqua, E.** University of Florida IFAS Aquaculture Extension Farmer Workshop. **Invited Speaker.**
2023. **Fuqua, E., M. Hawkins.** Aiming for shuck-cess: shellfish hatcheries at the FSU-CML. Apalachicola National Estuarine Research Reserve Wednesday Lecture Series. **Invited Speaker.**
2023. **Fuqua, E., S. Brooke.** Ontogenetic shifts in salinity tolerance in the eastern oyster, *Crassostrea virginica*: implications for restoration and recovery in Apalachicola Bay, FL. National Shellfisheries Association Annual Conference.
2019. **Fuqua, E.** Chasing Drum: Quite possibly a more uplifting story than its coral counterpart. Charleston Natural History Society Seminar Series. Invited Speaker.
2019. **Welling, E., Burnett, L., McElroy, E.** Aerobic scope of cultured juvenile red drum, *Sciaenops ocellatus*, at high summer water temperatures. Society for Integrative and Comparative Biology Annual Meeting.
2018. **Welling, E., Burnett, L., Watson, A., McElroy, E.** 2018. Specific dynamic action in juvenile cobia, *Rachycentron canadum*: a fast-growing marine fish. Society for Integrative and Comparative Biology Annual Meeting. Poster Presentation.

PROFESSIONAL & HONOR SOCIETY MEMBERSHIPS

World Aquaculture Society
National Shellfisheries Association
Sigma Xi
Society for Integrative and Comparative Biology
Beta Beta Beta Biological Honor Society

CERTIFICATIONS

Scientific Diver (AAUS, 2021-present), Dry suit Diver (PADI, 2022), Rescue Diver (PADI, 2021), Nitrox Diver (PADI, 2021), Advanced Open Water Diver (PADI, 2021), Open Water Diver (SSI, 2016), Emergency First Aid (2021-present)