

DANIELLE M. MCAREE

Extension Program Associate

Mississippi State University Coastal Research & Extension Center

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EDUCATION

May 2026 **Master of Science in Wildlife,
Fisheries and Aquaculture**

Mississippi State University

May 2020 **Bachelor of Science in Zoology
Cum Laude with Honors in Zoology**

Minor in Chemistry

University of Vermont

GPA: 3.90

EMPLOYMENT

September 2021 **Extension Program Associate, Mississippi State University**

— Present

- Supervised by Dr. Marcus Drymon
- Assist with Marine Fisheries Ecology Program funded projects through trainings, workshop planning, and product development
- Plan and coordinate offshore bottom longline surveys throughout the northern Gulf of Mexico
- Directly supervise and train intermittent workers and volunteers
- Communicate fisheries information to fisheries stakeholders and the general public
- Author newsletters, Extension publications, and social media content
- Assist with undergraduate labs and field days including dissections, gillnets, trawls, bottom longlines, and seines
- Organize and conduct port sampling efforts at recreational fishing tournaments

March 2021 — **Marine Fisheries Ecology Intern, Mississippi State University**
September 2021

- Supervised by Dr. Marcus Drymon
- Assisted with offshore bottom longline surveys throughout the northern Gulf of Mexico
- Collected, processed, and archived samples from elasmobranchs and bony fishes, including muscle, vertebrae, gonads, otoliths, and fin clips
- Conducted outreach and education events
- Developed materials for use at outreach events
- Authored social media posts and engaged with followers through virtual educational activities
- Supported professor and teaching assistant during field trips and lab exercises for undergraduate course on elasmobranch biology

September 2019 **Undergraduate Research Assistant, University of Vermont**

- May 2020
- Supervised by Dr. Ellen Marsden & PhD student Matthew Futia
 - Assisted with a graduate student project associated with the Champlain Acoustic Telemetry Observation System (CATOS)
 - Organized equipment in the lab and on the research vessel
 - Worked cooperatively with a team in data collection from trawl and gillnet samples
 - Assisted in capturing and tagging lake trout with internal acoustic tags and external Floy tags
 - Worked independently in conducting lake trout stomach content analyses
 - Input field and lab data to physical and electronic databases
 - Independently collected field data during the COVID-19 pandemic

RESEARCH EXPERIENCE

September 2018 **Undergraduate Research**, *University of Vermont*

- May 2020
 - Conducted independent research and collaborated with undergraduate students, graduate students, and research professionals in an ongoing study
 - Analyzed recordings and spectrograms of humpback whale songs collected using passive acoustic monitoring
 - Abstract was accepted by the Society for Marine Mammalogy; poster presentation was given at the 2019 World Marine Mammal Conference

PEER-REVIEWED PUBLICATIONS

1. Prasky EG, Drymon JM, Grabowski JH, Anderson AQ, Gibbs SL, Jargowsky AE, **McAree DM**, Osowski AR, Swinea SH, Scyphers SB. **2023**. Characterizing anglers' responses to reported increases in shark depredation across the Gulf of Mexico.

TECHNICAL REPORTS

1. Drymon JM, Osowski AR, Jefferson AE, Anderson AQ, **McAree DM**, Scyphers SB, Prasky EG, Swinea SH, Gibbs SL, Karnauskas M, Gervasi C. **2022**. Co-Producing a Shared Characterization of Depredation in the Gulf of Mexico Reef Fish Fishery: comprehensive report.
2. Drymon JM, Osowski AR, Jefferson AE, Anderson AQ, **McAree DM**, Scyphers SB, Prasky EG, Swinea SH, Gibbs SL, Karnauskas M, Gervasi C. **2022**. Co-Producing a Shared Characterization of Depredation in the Gulf of Mexico Reef Fish Fishery: 2022 Workshop Summary Report. SEDAR74-DW-32. SEDAR, North Charleston, SC. 25 pp.

EXTENSION PRODUCTS

1. Pfalzgraf CD, Anderson AQ, **McAree DM**, Drymon JM. **2025**. Gulf Coast Fisherman Newsletter, Issue 39. Mississippi-Alabama Sea Grant Consortium publication MASGP 25-001-03.
2. Anderson AQ, **McAree DM**, Drymon JM. **2025**. Gulf Coast Fisherman Newsletter, Issue 38. Mississippi-Alabama Sea Grant Consortium publication MASGP 25-001-02.
3. Pfeiffer MA, Anderson AQ, Smoot TJ, Wheeler AR, **McAree DM**, McGregor AJ, Drymon JM. **2025**. Marine Science Career Resources. Fact sheet. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-041 and Mississippi State University Extension publication M2479.
4. McGregor AJ, Jargowsky AJ, **McAree DM**, Drymon JM. **2025**. Gulf Coast Fisherman Newsletter, Issue 37. Mississippi-Alabama Sea Grant

Consortium publication MASGP-25-001-01.

5. Smoot TJ, Pfeiffer MA, McGregor AJV, **McAree DM**, Anderson AQ, Drymon JM. **2024**. Gulf Coast Fisherman Newsletter, Issue 36. Mississippi-Alabama Sea Grant Consortium publication MASGP 24-001-04.
6. Pfeiffer MA, Wheeler AR, Smoot TJ, Anderson AQ, **McAree DM**, McGregor AJ, Drymon JM. **2024**. Marine Science Career Resources. Story map. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-039.
7. Pfeiffer MA, Smoot TJ, Wheeler AR, Vaughn AJ, **McAree DM**, Drymon JM. **2024**. Gulf Coast Fisherman Newsletter, Issue 35. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-001-03.
8. Pfeiffer MA, Smoot TJ, Vaughn AJ, Anderson AQ, **McAree DM**, Drymon JM. **2024**. Build-a-Shark Activity. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-034.
9. Bauer KR, Anderson AQ, **McAree DM**, Jargowsky AE, Drymon JM. **2024**. Underwater Invaders: Lionfish in the Gulf of Mexico. Fact sheet. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-032 and Mississippi State University Extension publication M2463.
10. Bauer KR, Anderson AQ, **McAree DM**, Jargowsky AE, Wheeler AR, Drymon JM. **2024**. A Guide to Saltwater Fishing Clubs for the Northern Gulf Angler. Story map. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-014.
11. Bauer KR, Anderson AQ, **McAree DM**, Jargowsky AE, Drymon JM. **2024**. A Guide to Saltwater Fishing Clubs for the Northern Gulf Angler. Fact sheet. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-013 and Mississippi State University Extension publication M2461.
12. Osowski AR, Anderson AQ, **McAree DM**, Drymon JM. **2024**. Gulf Coast Fisherman Newsletter, Issue 33. Mississippi-Alabama Sea Grant Consortium publication MASGP-24-001-01.
13. Osowski AR, Jargowsky AE, Anderson AQ, **McAree DM**, Drymon JM. **2023**. Gulf Coast Fisherman Newsletter, Issue 32. Mississippi-Alabama Sea Grant Consortium publication MASGP-23-001-04.
14. **McAree DM**, Anderson AQ, Jargowsky AE, Drymon JM. **2023**. Whatever Happened with the Great Red Snapper Count? Fact sheet. Mississippi-Alabama Sea Grant Consortium publication MASGP-23-033.
15. **McAree DM**, Anderson AQ, Jargowsky AE, Drymon JM. **2023**. Whatever Happened with the Great Red Snapper Count? Story map. Mississippi-Alabama Sea Grant Consortium publication MASGP-23-031.

16. Anderson AQ, **McAree DM**, Jargowsky AE, Drymon JM. **2023**. Gulf Coast Fisherman Newsletter, Issue 29. Mississippi-Alabama Sea Grant Consortium publication MASGP 23-001-01.
17. Pagel AM, Zimmer CE, Osowski AR, **McAree DM**, Anderson AQ, Drymon JM. **2023**. You Don't Know Jacks! A Guide to Gulf of Mexico *Seriola* Jacks. Mississippi State University Extension publication 3852 and Mississippi-Alabama Sea Grant Consortium publication MASGP-22-038.
18. **McAree DM**, Anderson AQ, Drymon JM. **2022**. Extending Our Reach: A Regional Reef Fish Collaborative — Project Overview. Mississippi-Alabama Sea Grant Consortium publication MASGP-22-058.
19. **McAree DM**. **2022**. Shark Week at the Pier provides learning opportunities for all. Mississippi State University Extension Outdoors article.
20. Anderson AQ, **McAree DM**, Jefferson AE, Jargowsky MB, Osowski AR, Drymon JM. **2022**. Marine Fisheries and Environmental Stewardship. Mississippi-Alabama Sea Grant Consortium publication MASGP-22-014.
21. Jargowsky MB, Jefferson AE, Drymon JM, Anderson AQ, **McAree DM**, Osowski AR. **2022**. Why You Should Eat Local, Wild-Caught Seafood. Mississippi-Alabama Sea Grant Consortium publication MASGP-22-013.
22. **McAree DM**, Anderson AQ, Osowski AR, Jargowsky MB, Jefferson AE, Drymon JM. **2022**. Gulf Coast Fisherman Newsletter, Issue 25, Catch and Release Fishing. Mississippi-Alabama Sea Grant Consortium publication MASGP 22-001-001.
23. Anderson AQ, **McAree DM**, Jargowsky MB, Jefferson AE, Osowski AR, Drymon JM. **2021**. Gulf Coast Fisherman Newsletter, Issue 24, The Taxman. Mississippi-Alabama Sea Grant Consortium publication MASGP 21-001-004.
24. Anderson AQ, Huerta-Beltran BL, **McAree DM**, Drymon JM. **2021**. Sharks of Mississippi and Alabama. Mississippi-Alabama Sea Grant Consortium publication MASGP-21-062 and Mississippi State University Extension publication 3715.
25. **McAree DM**, Anderson AQ, Huerta BH, Jargowsky MB, Jefferson AE, Drymon JM. **2021**. How Big Are You Compared to a Shark? Mississippi-Alabama Sea Grant Consortium publication MASGP-21-051.

CONFERENCE PRESENTATIONS

1. Pfalzgraf CD, Anderson AQ, **McAree DM**, Drymon JM. **2025**. Evaluating Sheephead Habitat Use and Seasonal Residency in Grand Bay National

Estuarine Research Reserve. Grand Bay National Estuarine Research Reserve Symposium. Moss Point, MS.

2. **McAree DM**, Jargowsky AE, Anderson AQ, Jargowsky MB, Collins AB, Streich MK, Haddad NA, Sipos MJ, Drymon JM. **2025**. Depredation on descender devices: a Gulf-wide investigation. Annual Meeting of the American Elasmobranch Society. St. Paul, MN.
3. Anderson AQ, **McAree DM**, Carlson JK, Dawdy AM, Drymon JM. **2025**. Blacknose shark (*Carcharhinus acronotus*) age, growth, and maturity in the northern Gulf of Mexico. Annual Meeting of the American Elasmobranch Society. St. Paul, MN.
4. **McAree DM**, Passerotti MS, Carlson JK, Hendon JM, Higgs JM, Anderson AQ, Drymon JM. **2024**. Preliminary analysis of tiger shark (*Galeocerdo cuvier*) age, growth, and maturity in the western North Atlantic Ocean. Bays and Bayous Symposium. Biloxi, MS.
5. Anderson AQ, Carlson JK, Dawdy AM, **McAree DM**, Drymon JM. **2024**. Preliminary analysis of blacknose shark (*Carcharhinus acronotus*) age, growth, and maturity in the northern Gulf of Mexico. Bays and Bayous Symposium. Biloxi, MS.
6. **McAree DM**, Passerotti MS, Carlson JK, Hendon JM, Higgs JM, Anderson AQ, Drymon JM. **2024**. Preliminary analysis of tiger shark (*Galeocerdo cuvier*) age, growth, and maturity in the western North Atlantic Ocean. Annual Meeting of the American Elasmobranch Society. Pittsburgh, PA.
7. Anderson AQ, Carlson JK, Dawdy AM, **McAree DM**, Drymon JM. **2024**. Preliminary analysis of blacknose shark (*Carcharhinus acronotus*) age, growth, and maturity in the northern Gulf of Mexico. Annual Meeting of the American Elasmobranch Society. Pittsburgh, PA.
8. **McAree DM**, Passerotti MS, Carlson JK, Hendon JM, Higgs JM, Anderson AQ, Drymon JM. **2024**. Preliminary analysis of tiger shark (*Galeocerdo cuvier*) age, growth, and maturity in the western North Atlantic Ocean. Mississippi State University Graduate Student Symposium. Starkville, MS.
9. Anderson AQ, Carlson JK, Dawdy AM, **McAree DM**, Drymon JM. **2024**. Preliminary analysis of blacknose shark (*Carcharhinus acronotus*) age, growth, and maturity in the northern Gulf of Mexico. Mississippi State University Graduate Student Symposium. Starkville, MS.
10. **McAree DM**, Anderson AQ, Jefferson AE, Collins AB, Streich MK, Drymon JM. **2023**. Depredation on descender devices: an update from a Gulf-wide investigation. Return 'Em Right Steering Committee Meeting. Tampa, FL.

11. Prasky EG, Drymon JM, Grabowski JH, Anderson AQ, Gibbs SL, Jargowsky AE, **McAree DM**, Osowski AR, Swinea SH, Scyphers SB. **2023**. Characterizing anglers' responses to shark depredation across the Gulf of Mexico. 9th World Fisheries Congress. Seattle, WA.
12. Anderson AQ, Barrett A, **McAree DM**, Drymon JM, Sparks EL. **2023**. Invited Talk: Supporting Local Businesses Through an Enhanced Gulf Coast Outpost Program. Gulf of Mexico Alliance All Hands Meeting. Austin, TX.
13. Drymon JM, Jargowsky AE, Ajemian MJ, **McAree DM**, Anderson AQ, Osowski AR, Collins AB, Sipos MJ, Streich MK, Prasky EG, Scyphers SB. **2023**. Case studies for involving stakeholders in the management of shark depredation. Annual Meeting of the American Elasmobranch Society. Norfolk, VA.
14. Prasky EG, Drymon JM, Anderson AQ, Gibbs SL, Jargowsky AE, Karnauskas M, **McAree DM**, Osowski AR, Swinea SH, Scyphers SB. **2023**. Characterizing anglers' responses to reported increases in shark depredation across the Gulf of Mexico. Annual Meeting of the American Elasmobranch Society. Norfolk, VA.
15. **McAree DM**, Anderson AQ, Jefferson AE, Collins A, Streich M, Drymon JM. **2023**. Depredation on descender devices: a gulf-wide investigation. Bays and Bayous. Mobile, AL.
16. Anderson AQ, **McAree DM**, Drymon JM, Sparks E, Barrett A. **2023**. Supporting Local Businesses Through an Enhanced Gulf Coast Outpost Program. Bays and Bayous. Mobile, AL.
17. Drymon JM, Alexander K, Anderson AQ, Antoun H, Baker S, Barry S, Camp E, Collins A, Fifer J, Fluech B, Gibbs J, Gorstein M, Haddad N, Hall-Scharf B, Hanke M, Krueger S, Jargowsky AE, Lively J, Martino D, Muehlstein E, **McAree DM**, Olive A, Ortiz A, Osowski A, Maung-Douglass E, Picariello L, Plotkin P, Sabine A, Scyphers S, Seibert D, Sipos M, Swinea S, Wiegand C, Zangroniz A. **2023**. Extending Our Reach: a multi-state collaborative approach to reef fish Extension. Mississippi-Alabama Sea Grant Consortium Bays and Bayous Symposium. Mobile, AL.
18. Osowski AR, Jefferson AE, Drymon JM, Scyphers SB, Swinea SH, Prasky EG, Karnauskas M, Anderson AQ, **McAree DM**, Gibbs, SL. **2023**. Co-Producing a Shared Characterization of Depredation in the Gulf of Mexico Reef Fish Fishery. Bays and Bayous. Mobile, AL.
19. Osowski AR, Jefferson AE, Anderson AQ, **McAree DM**, Scyphers SS, Swinea SH, Prasky EG, Gibbs SL, Karnauskas M, Drymon JM. **2022**. Co-producing a shared characterization of depredation in the Gulf of Mexico reef fish fishery. 75th Annual Meeting of the Gulf and Caribbean Fisheries Institute.

Fort Walton-Destin, FL.

20. Prasky EG, Drymon JM, Anderson AQ, Gibbs SL, Jefferson AE, Karnauskas M, **McAree DM**, Osowski AR, Swinea SH, Scyphers SB. **2022**. Quantifying angler perceptions about shark depredation through stakeholder engagement. Sharks International. Valencia, Spain.
21. Rosten S, **McAree DM**, Ziegler K, Chereskin E, Rasmussen K, Palacios JD, Poveda MG, Trejos L, May-Collado LJ. **2019**. Singing activity and song structure of breeding stock G wintering off the coast of Costa Rica and Panama. World Marine Mammal Conference. Barcelona, Catalonia, Spain.

CONFERENCE ATTENDANCE

Annual Meeting of the American Elasmobranch Society

2025 & 2024

St. Paul, MN; Pittsburgh, PA

Bays and Bayous Symposium

2024 & 2023

Biloxi, MS; Mobile, AL

Mississippi State University Extension Annual Conference

2024 & 2022

Starkville, Mississippi

Mississippi State University Graduate Student Symposium

2024

Starkville, Mississippi

Gulf and Caribbean Fisheries Institute Conference

2022

Fort Walton Beach, Florida

Mississippi State University Extension Annual Conference

2021

Virtual

World Marine Mammal Conference

2019

Barcelona, Catalonia, Spain

INFORMAL PRESENTATIONS

Elasmobranch age and growth

2025 & 2024

Biology of Sharks and Rays guest lecture

Dauphin Island, AL

Sustainable Fishing

2024

Master Naturalist Advanced Training

Biloxi, MS

Acoustic analysis of humpback whale (*Megaptera novaeangliae*) song in breeding grounds off the Pacific coast of Central America

2020

University of Vermont Science Symposium

Virtual

Singing patterns of humpback whales (*Megaptera novaeangliae*) in wintering grounds off the coast of Central America and potential negative effects of tour boat traffic

2019

University of Vermont Science Symposium

Burlington, VT

OUTREACH EXPERIENCE

National Estuaries Day

2025, 2024, & 2022

Return 'Em Right at ADSFR Captains' Meeting

2025

Great Hammerhead Research at Chandeleur Island Brewing Company

2025, 2024, & 2022

Shark Week at Gulf State Park

2025, 2024, 2023, 2022, & 2021

Marine Discovery Day at the Mississippi Museum of Natural Sciences

2025, 2024, & 2023

Celebrate the Gulf Marine Education Festival

2025, 2024, 2023, & 2022

Kids Fishing 101

2025, 2024, & 2023

STEAM Night at Vancleave Upper Elementary

2024

MSU Extension Showcase

2024

FISHES Field Trip

2024, 2023, 2022 & 2021

Coastal Mississippi Master Naturalist Field Trip

2024, 2022 & 2021

Shark Weekend at McWane Science Center

2024

Community Bazaar at Faith Christian Academy

2024

Three Rivers Elementary School

2024

Hattiesburg Zoo Earth Day

2024

My Two Boots

2024, 2023, & 2022

Brownwater Banter Podcast/Seminar

2024

Biloxi Boat Show

2024 & 2023

Homeschool Friday: Sharks of the Gulf

2024

Master Naturalist Advanced Training (Sustainable Fishing)

2024

Shark Dissection at the Old School Learning Depot

2023

Mississippi Deep Sea Fishing Rodeo

2023 & 2022

Guest Lecture for St. Martin Gifted Center

2023

Mobile Environmental Studies Center Open House

2022 & 2023

Louisiana Fisheries Forward Summit

2023

Guest Lecture for the Blake at Biloxi

2023

Mississippi Gumbo Fest

2022

Bayou View Middle School Wildlife Club

2022

Alabama Deep Sea Fishing Rodeo

2022

Casting for Conservation

2022

Shark Day at St. Martin East Elementary

2022

Tides of Change

2021

WORKSHOP ATTENDANCE

Rapid Estimation of Fish Age Using Fourier-transform Near Infrared Spectroscopy (FT-NIRS)

NOAA/National Marine Fisheries Service, Northwest Fisheries Science Center

Seattle, WA

April 3-7, 2023

Instructors: Thomas Helser, Staff of NOAA/NMFS/Northwest Fisheries Science Center

Advancing the Science of Fish Ageing

NOAA/National Marine Fisheries Service, Southeast Fisheries Science Center, Gulf and Caribbean Fisheries Institute

Fort Walton Beach, FL

November 6, 2022

Instructors: Dr. Ron Hill, Staff of the NOAA/NMFS/Southeast Fisheries Science Center's Biology & Life History Branch

Facilitation Basics

NOAA Office for Coastal Management

Virtual

December 10, 2021

Instructors: Jan Kucklick & Melissa Ladd

GRANT FUNDING

2025. Mississippi Research Alliance. \$2,036

2025. Mississippi State University Staff Council Scholarship Program. \$300.

2025 & 2024. American Elasmobranch Society Student Travel Award. \$500

CERTIFICATIONS

American Heart Association Heartsaver CPR, AED, and Basic First Aid

2025, 2024, & 2022

Massachusetts Firearms Safety

September 2020

National Association of Underwater Instructors: Open Water SCUBA

June 2020

Vermont Hunter's Safety

July 2019

ACADEMIC AWARDS

Mike DeGruy Student Awards 1st Place Oral Presentation

Spring 2023

Dean's List

Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018 & Fall 2019

· Top 20 percent of class in the college of Arts & Sciences

General Scholarship

Fall 2017

Presidential Scholarship

Fall 2016

COMPUTER SKILLS

Microsoft Office (Word, PowerPoint & Excel)

Adobe Creative Cloud (Photoshop, Illustrator, Lightroom, & Premiere Pro)

ArcGIS

Acoustics software (Raven Pro, Arbimon)

SOCIAL MEDIA AND WEBPAGES

MSU Marine Fisheries Ecology [website](#), [Instagram page](#), [Facebook page](#), and [TikTok](#)

Creator/Admin

2021 — present

Sea Grant Reef Fish Extension Collaborative [website](#)

Creator/Editor

2021 — present

**Fishermen Invested in Science, Healthy Ecosystems, and Sustainability
[Facebook page](#)**

2021 — present

Bear Hill Studios [Instagram page](#) & [Facebook page](#)

Owner

2020 — present

River Rat Custom Outdoors [Instagram page](#), [Facebook page](#), and [website](#)

Admin

2019 — 2021

ILLUSTRATIVE DESIGN

Bluefin Tuna Restoration Project pelagic longline [graphic](#)

2023

Bluefin Tuna Restoration Project [logo](#)

2023

Depredation review manuscript [graphic](#)

2023

Extending Our Reach [logo](#)

2022

REFERENCES

Dr. J. Marcus Drymon (MS Advisor; Current Supervisor)

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Marine Fisheries Specialist, Mississippi-Alabama Sea Grant Consortium

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Amanda Jargowsky

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Marine Fisheries Specialist, Mississippi-Alabama Sea Grant Consortium

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