

Jeffrey David Plumlee

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Abbreviated Curriculum Vitae:

Education:	
B.S. – Marine Fisheries	Texas A&M University at Galveston
M.S. – Wildlife and Fisheries Science	Texas A&M University
Ph.D. – Ecology	University of North Carolina at Chapel Hill
Academic Rank	Assistant Professor/ Extension Specialist
Years of Service	3
Publications:	
Peer-Reviewed	25 (Total); 12 (as Faculty)
Extension Articles and Media	22
Newsletter Issues	30
Extramural Funding:	
Competitive Proposals Submitted	23
Competitive Proposals Funded	11
Total Awarded as Grants and Contracts	\$11,179,545 (Total); \$1,654,313 (Institutional Portion)
Fellowships	1
Mass-Media Interviews	7
Presentations:	
Invited	8
Conference	40 (Total); 26 (as Faculty)
Committees and Panels:	
Graduate Students (Committee Chair)	2 M.S., 3 Ph.D.
Graduate Students (Committee Member)	2 M.S., 1 Ph.D.
Graduate Student Awards	9
External Advisory Panels	4
Professional Organizations:	
Member	6
Committee Appointment	1
Service:	
Articles Peer-Reviewed	24
Internal University Committees	3
Journal Editorial Boards	1

Education:

Ph.D. in the Environment, Ecology, and Energy Program, **University of North Carolina at Chapel Hill** (May, 2022)

M.S. in Wildlife and Fisheries Sciences, **Texas A&M University** (December 2018)

B.S. in Marine Fisheries, **Texas A&M University** (December, 2015)

Work History:

Assistant Professor, **Louisiana State University** (August, 2023 – Present)
Fisheries Specialist, **Louisiana Sea Grant** (August, 2023 – Present)
Postdoctoral Fellow, **University of South Alabama** (May, 2022 – August, 2023)
Research and Teaching Assistant, **University of North Carolina at Chapel Hill** (August, 2018 – May, 2022)
Research and Teaching Assistant, **Texas A&M at Galveston** (January, 2016 – August, 2018)
Laboratory Technician, **Texas A&M at Galveston** (January, 2013 – December, 2015)
Laboratory Technician, **Purdue University** (April, 2004 – August, 2004)

Peer-Reviewed Publications (25):

Mentored: #graduate student; *undergraduate/technician; §postdoctoral researcher

- Ryburn, S. J., Srebniak, E.R., Parker, C.G., **Plumlee, J. D.**, Branham, C. C., Gao, G. Fodrie, F. J., Bruno, J. F. (2026) DNA barcoding increases the taxonomic resolution of shark diet analysis compared to morphological stomach contents identification. *Conservation Genetics Resources*. 19(2)
- Matich, P., Mullins, L. L., **Plumlee, J. D.**, Fisher, M. R., Mareska, J. Drymon, J. M. (2026) The dynamic nature of nearshore shark nurseries in the northern Gulf of Mexico. *Journal of Biogeography*. e70210
- Ryburn, S. J., Wisely, E., **Plumlee, J. D.**, Branham, C. C., Fodrie, F. J., Bruno, J. F. (2026) Using DNA metabarcoding of cloacal swabs to elucidate the diets of four coastal shark species. *Wild*. 3(1) 1:17
- Guo, Y. §, Roberts, B. J., Nyman, J. A., **Plumlee, J. D.**, Davenport, T. M., Hopper, G. W., La Peyre, M. K. (2026) Expansion trends and impacts of *Phragmites australis* on the Louisiana Gulf Coast. *Ecological Applications*. 1:17
- Ryburn, S. J., Wisely, E., **Plumlee, J. D.**, Branham, C. C., Fodrie, F. J., Bruno, J. F. (2026) A comparison of DNA metabarcoding cloacal swabs and stomach contents for shark diet reconstruction. *Environmental DNA*. 1:17
- Matich, P., **Plumlee, J. D.**, Bubley, W. J., Curtis, T. H., Drymon, J. M., Mullins, L. Shipley O. N., TinHan, T. C., Fisher, M. T. (2024) Long-term effects of climate change on juvenile bull shark migratory patterns. *Journal of Animal Ecology*, 93: 1445 – 1461
- Plumlee, J. D.**, Powers, S. P., Kimbro, D. L., Lehrter, J. C., Herrmann, J., Mareska, J. (2024). Increasing duration of heatwaves poses a threat to oyster sustainability in the Gulf of Mexico. *Ecological Indicators*, 162, 112015.
- Mullins, L. L., Cartwright, J., Dykstra, S. L., Evans, K., Mareska, J., Matich, P., **Plumlee, J. D.**, Sparks, E., Drymon, J. M. (2024). Warming waters lead to increased habitat suitability for juvenile bull sharks (*Carcharhinus leucas*). *Scientific Reports*. 14(1): 4100.
- Plumlee, J. D.**, Branham, C., Ryburn, S., Fodrie, F. J. (2023) Trophic partitioning among seasonally resident predators in a temperate estuary. *Marine Ecology Progress Series* 721: 119-133.
- Gutierrez, E. M., **Plumlee, J. D.**, Bolser, D. G., Erisman, B. E., Wells, R. J. D. (2023) Regional variation in feeding patterns of sheepshead (*Archosargus probatocephalus*) in the northwest Gulf of Mexico. *Fishes*. 8(4): 188

- Powers, S. P., Hightower, C. L., Hoenig, J. M., **Plumlee, J. D.**, Nelson, T. R., Drymon, J. M. (2023). Novel estimation of gear selectivity using a concurrent mass mortality event: a case study using red drum (*Sciaenops ocellatus*) in the northern Gulf of Mexico. *Fisheries Research*. 563, 106690
- Plumlee, J. D.**, Roskar, G., Craig, J. K., Fodrie, F. J. (2022). Assessing the catchability of predators in the presence of prey using experimental gillnets in a temperate estuary. *Fisheries Research*. 253: 106383
- Plumlee, J. D.**, Kenworthy, M. D., Gittman, R. K., Keller, D. A., Garnett, E. E., Vaca-Pita, L., Carr, L. A., Fodrie, F. J. (2022). Remarkable euryhalinity of a marine fish *Lutjanus novemfasciatus* in mangrove nurseries. *Ecology*. e03582.
- Matich, P., **Plumlee, J. D.**, Fisher, M. R. (2021). Grow fast, die young – does compensatory growth reduce survival of juvenile blacktip sharks (*Carcharhinus limbatus*) in the western Gulf of Mexico? *Ecology and Evolution*. 11: 16280 – 16295.
- Plumlee, J. D.**, Hala, D. N., Rooker, J. R., Shipley, J. B., Wells, R. J. D. (2021). Trophic ecology of fishes associated with artificial reefs assessed using multiple biomarkers. *Hydrobiologia*. 848: 4347 - 4362.
- Matich, P., **Plumlee, J. D.**, Weideli, O. C., Fisher, M. (2020). New insights into the trophic ecology of blacktip sharks (*Carcharhinus limbatus*) from a subtropical estuary in the western Gulf of Mexico. *Journal of Fish Biology*. 98: 470 - 484.
- Plumlee, J. D.**, Yeager, L. A., Fodrie, F. J. (2020). Role of saltmarsh production in subsidizing adjacent seagrass food webs: Implication for landscape-scale restoration. *Food Webs*. e00158.
- Matich, P., Nowicki, R. J., Davis, J. Mohan, J. A., **Plumlee, J. D.**, Strickland, B. A., TinHan, T. C., Wells, R. J. D., Fisher, Mark. (2020). Does proximity to freshwater refuge influence the size structure of an estuarine predator (*Carcharhinus leucas*) in the northwestern Gulf of Mexico? *Marine and Freshwater Research*. 71: 1501 – 1516.
- Matich, P., Moore, K. B., **Plumlee, J. D.** (2020). Effects of Hurricane Harvey on the trophic status of juvenile sport fishes (*Cynoscion nebulosus*, *Sciaenops ocellatus*) in an estuarine nursery. *Estuaries and Coasts*. 43: 997 – 1012.
- Plumlee, J. D.**, Dance, K. M., Dance, M. A., Rooker, J. R., TinHan, T. C., Shipley, J. B., Wells, R. J. D. (2020). Fish assemblages associated with artificial reefs assessed using multiple gear types in the northwest Gulf of Mexico. *Bulletin of Marine Science*. 96 (4): 655 – 677.
- Plumlee, J. D.**, Dance, K. M., Matich, P., Mohan, J. A., Richards, T. M., TinHan, T. C., Fisher, M. R., Wells, R. J. D. (2018). Community structure of elasmobranchs in estuaries along the northwest Gulf of Mexico. *Estuarine, Coastal and Shelf Science* 204: 103-113.
- Bird, C., Trueman, C., Verissimo, A., Magozzi, S. ... **Plumlee, J. D.**, et al. (2018). A global perspective on the trophic geography of sharks. *Nature Ecology & Evolution* 2: 200-305.
- Matich, P., Mohan, J. A., **Plumlee, J. D.**, TinHan, T. C., Wells, R. J. D., Fisher, M. (2017). Factors shaping the co-occurrence of two juvenile shark species along the Texas Gulf Coast. *Marine Biology* 164:141.
- Harrington, T., **Plumlee, J. D.**, Drymon, J. M., Wells, R. J. D. (2016) Diets of Atlantic Sharpnose Shark (*Rhizoprionodon terraenovae*) and Bonnethead (*Sphyrna tiburo*) in the northern Gulf of Mexico. *Gulf and Caribbean Research* 27: 42-51.
- Plumlee, J. D.** & Wells, R. J. D. (2016). Feeding ecology of three coastal shark species in the northwest Gulf of Mexico. *Marine Ecology Progress Series* 550: 163-174.

Extension Publications (22):

- Robicheaux, E. S., **Plumlee, J. D.** (2026) *Louisiana Sea Grant*, How to Identify Sharks. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2026, March) *2025 AgSummary*, Fisheries Commodity Narrative. Baton Rouge, LA
- Seibert, D., **Plumlee, J. D.**, McCall Walker, M., King, B., Henderson, O. (2025) *Louisiana Sea Grant*, How to Identify Grouper. Baton Rouge, LA
- Seibert, D., **Plumlee, J. D.**, McCall Walker, M., King, B., Henderson, O. (2025) *Louisiana Sea Grant*, How to Identify Tuna. Baton Rouge, LA
- Seibert, D., **Plumlee, J. D.**, McCall Walker, M., King, B., Henderson, O. (2025) *Louisiana Sea Grant*, How to Identify Snapper. Baton Rouge, LA
- Plumlee, J. D.**, Hayes, M. P. (2025) *Louisiana Agriculture*, All Water Lead to the Gulf: Expansion of Land and Sea Grant Partnership. Baton Rouge, LA
- Plumlee, J. D.**, Hopper, G. (2025) *Louisiana Agriculture*, Does the Propagation of Roseau Cane Influence Available Fish Habitat in Restored Louisiana Marshes? Baton Rouge, LA
- Plumlee, J. D.**, Franze, C. (2025) *Louisiana Agriculture*, The Louisiana Regional Fisheries Summit: Developing Extension Programming to Address Regional Issues. Baton Rouge, LA
- Plumlee, J. D.** (2025) *Research Matters*, Unraveling the mysteries of tripletail movement. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2025) *Research Matters*, Extending reef fish outreach and education in the northern Gulf. Baton Rouge, LA
- Plumlee, J. D.** (2025) *Research Matters*, “Plumlee participates in Gulf Council workshop to improve recreational fishing data collection on offshore reef fisheries”. Baton Rouge, LA
- Plumlee, J. D.**, La Peyre, M. K., (2025) *Research Matters*, Assessment of invasive Roseau cane as critical fish habitat. Baton Rouge, LA
- Plumlee, J. D.**, La Peyre, M. K. (2025) *Research Matters*, Monitoring efforts on the longest continuous living shoreline in Louisiana. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2025, May) *2024 AgSummary*, Fisheries Commodity Narrative. Baton Rouge, LA
- Walker, M. M., Gambill, H., Seibert, D., **Plumlee, J. D.**, Lively, J. A. (2024, October). Reef Fish Depredation Factsheet. *Louisiana Sea Grant*. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2024, May) *2023 AgSummary*, Fisheries Commodity Narrative. Baton Rouge, LA
- McCall Walker, M. M., Gambill, H., Seibert, D., **Plumlee, J. D.**, Lively, J. A. (2024, February). How to vent a fish. Factsheet. *Louisiana Sea Grant*. Baton Rouge, LA
- Plumlee, J. D.** (2023, December) The efficacy of slot limits. *Lagniappe*, Louisiana Sea Grant and Louisiana State University Agricultural Center. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2023, December) *2021 AgSummary*, Fisheries Commodity Narrative. Baton Rouge, LA
- Plumlee, J. D.**, Lively, J. A. (2023, December) *2022 AgSummary*, Fisheries Commodity Narrative. Baton Rouge, LA

Plumlee, J. D. (2023, October) Hot and out of breath: Heatwaves and our coastal fisheries. *Lagniappe*. Louisiana Sea Grant and Louisiana State University Agricultural Center. Baton Rouge, LA.

Plumlee, J. D. (2023, September) Chasing Tripletail. *Lagniappe*. Louisiana Sea Grant and Louisiana State University Agricultural Center. Baton Rouge, LA.

Newsletters:

Lagniappe, **Editor and Contributor**, published by Louisiana State University Agriculture Center and Louisiana Sea Grant. Issued Monthly. Issues to date; 30. (August 2023 – present)

Extramural Funding (\$11,129,634):

National Centers for Coastal Ocean Science **\$1,498,118 (Institutional Portion: \$296,313)**; J. L. Smith, M. M. Baustian, **J. D. Plumlee**, R. J. Latour, J. Bourque, Carnegie, R. B.; Role Co-Principal Investigator (2026-2029) Title: “Persistence and trophic transfer of algal toxins in benthic-pelagic coupled food webs.”

Gulf States Marine Fisheries Commission **\$4,900,000 (Institutional Portion: \$300,000)**; S. P. Powers, J. M. Drymon, E. Saillant, J. Gross, R. J. D. Wells, M. Streich, M. Lamont, M. A. Dance, **J. D. Plumlee**, et al.; Role: Co-Principal Investigator (2026 – 2027) Title: “Synthesizing knowledge and filling critical data gaps in the management of multi-jurisdictional finfish: Cobia and Tripletail”

NOAA RESTORE **\$3,200,000 (Institutional Portion: \$100,000)**; J. C. Lehrter, B. Dzwonkowski, Z. Liu, S. Yun, L. Kalin, D. Tian, R. Baker, S. P. Powers, S. Scyphers, **J. D. Plumlee**, et al.; Role: Co-Principal Investigator (2026 – 2031) Title: “Oyster, Blue Crab, Southern Flounder, and Spotted Seatrout Population Dynamics in Relation to Environmental Trends and Variability in Coastal Alabama: Phase II, Years 6-10”

Joe W. and Dorothy Dorsett Brown Foundation **\$15,000 (Institutional Portion: \$5,000)**; **J. D. Plumlee**, K. Fogelman, G. W. Hopper; Role: Principal Investigator (2025 – 2027) Title: “The consequences restricted hydrologic connectivity to the suitability of habitat for aquatic organisms in restored marsh”

Center of Excellence in Crop Development **\$15,000 (Institutional Portion: \$5,000)**; K. Fogelman, G. W. Hopper, **J. D. Plumlee**; Role: Co-Principal Investigator (2025 – 2026) Title: Evaluating critical oxygen requirements of *Procambarus clarkii* and implications for aquaculture management”

National Academies of Sciences, Engineering, and Medicine, Gulf Research Program, Early Career Research Fellowships; **\$76,000 (Institutional Portion: \$76,000)**; **J. D. Plumlee**; Role: **Fellowship Recipient** (2025 – 2027)

Partnership for our Working Coast **\$24,790 (Institutional Portion: \$20,000)**; **J. D. Plumlee**, G. Hopper, J.A. Nyman, M. La Peyre; Role: Principal Investigator (2025 – 2026) Title: “Hydrologic connectivity of created marsh in the Terrebonne basin”

Environmental Protection Agency **\$490,978 (Institutional Portion: \$120,000)**; G.W. Hopper, **J. D. Plumlee**, S. Moyo, A. Herrmann; Role: Co-Principal Investigator (2025 – 2028) Title: “Monitoring mussels for contaminants with geochemical markers”

Center of Excellence in Crop Development **\$30,000 (Institutional Portion: \$10,000)**; M.P.

- Hayes, D. Abdi, **J. D. Plumlee**; Role: Co-Principal Investigator (2024 – 2026)
Title: “Developing the Framework for Louisiana Waste Valorization Network from Shrimp Processors to Agricultural Farms”
- The Nature Conservancy* **\$99,822 (Institutional Portion: \$80,000)**; **J. D. Plumlee**, S. N. Trackenberg, and M. La Peyre, Role: Principal Investigator (2024 – 2028) Title: “Calcasieu Lake Oyster Reef, Phase IV Monitoring.”
- USDA NIFA* **\$112,181 (Institutional Portion: \$5,000)**; M. P. Hayes, D. Abdi, E. Teodoro, **J. D. Plumlee**, M. Ortega, E. Watts; Role: Co-Principal Investigator (2024 – 2028) Title: “Characterizing Louisiana Agriculture by Innovative Fluorescent Fingerprinting of Dissolved Organic Matter (DOM) and Parallel Factor Analysis (PARAFACs)”
- Louisiana Center of Excellence* **\$345,011 (Institutional Portion: \$300,000)**; **J. D. Plumlee**, G. Hopper, T. Davenport, J.A. Nyman, M. La Peyre; Role: Principal Investigator (2024 – 2026) Title: “Does propagation of Roseau cane (*Phragmites australis*) alter the efficacy of restoration as a tool to enhance saltmarsh fisheries production?”
- Louisiana Board of Regents Support Fund: Research Competitiveness Subprogram* **\$117,000 (Institutional Portion: \$117,000)**; **J. D. Plumlee**, Role: Principal Investigator (2024 – 2027) Title: “Migratory Connectivity, Site Fidelity, and Exploitation Susceptibility of Tripletail (*Lobotes Surinamensis*): An Emerging Recreational Fishery”
- Coastal Protection and Restoration Authority* **\$185,695 (Institutional Portion: \$160,000)**; M. La Peyre and **J. D. Plumlee**, Role: Co-Principal Investigator (2024 – 2027) Title: “Biloxi Marsh Living Shoreline Monitoring Plan for Objective 3: Oyster Recruitment”
- Coastal Wetlands Planning Protection and Restoration Act: Environmental Working Group* **\$60,000 (Institutional Portion: \$60,000)**; **J. D. Plumlee**, Role: Principal Investigator (2024, 2025, 2026)
- North Carolina Sea Grant Minigrant* **\$9,950**; F.J Fodrie and **J. D. Plumlee** Role: Senior Personnel (2019) Title: “Stable isotopes as a tool to elucidate trophic and habitat partitioning of a diverse marine predatory community.”

Fellowships (1):

National Academies of Science, Engineering and Medicine, Gulf Research Program, Early Career Fellowship. Environmental Stewardship Track, Awarded 2025

Mass Media (8):

- Grist*, “As seas rise, where will Louisiana’s fishers go?”. Published 5/21/26, Author: Frida Garza
- Louisiana Public Broadcasting*, “Louisiana Spotlight: Empty Boats Foreign Shrimp”. Filmed 4/1/26, Interviewer: Christina Jensen
- LSU AgCenter Communications*, “A nontraditional path to fisheries science: Plumlee earns prestigious fellowship”. Published 12/23/25, Author: Tobie Blanchard
- The Advocate*, “These fish were Louisiana’s most popular in 2025, but what do the numbers reveal?”. Published 12/26/25, Author: Mike Smith
- The Advocate*, “Will Louisiana tighten redfish catch limits? First change in decades may be on the way”. Published 1/29/24, Author: Mike Smith

The Advocate, “Is bowfishing hurting Louisiana’s redfish population? A salty debate endures.”

Published 7/8/24, Author: Mike Smith

The Advocate, “Louisiana’s fishing industry could benefit from federal legislation” Published

7/16/24, Author: Sophia Bailly

WWL 870, “Interviewed on red drum catch limit changes” Live Interview, 2/5/24, Interviewer:

Tommy Tucker

Invited Presentations (8):

Plumlee, J. D. (2025, June) Heatwave duration correlates with the poor recruitment of oysters in northern Gulf of Mexico coastal waters. *Gulf of Mexico Coastal Ocean Observing System Special Topics Webinar*, Online

Plumlee, J. D. (2025, October) Fisheries and Movement Ecology. Lecture for Fishermen Invested in Science, Healthy Ecosystems, and Sustainability (F.I.S.H.E.S.). Coastal Research and Extension Center. Biloxi, MS

Plumlee, J. D. (2024, April) Climate influences on fishery recruitment and phenology in the northern Gulf of Mexico. Invited Speaker. University of New Orleans. New Orleans, LA.

Plumlee, J. D. (2024, October) Fisheries and Movement Ecology. Coastal Research and Extension Center. Biloxi, MS

Plumlee, J. D. (2024, July) Recruitment, Growth, and Mortality Relationships with Environmental Stressors. Building Resilience for Oysters, Blue Crab, and Spotted Seatrout to Environmental Trends and Variability in the Gulf of Mexico, Technical Review, Mobile, AL

Plumlee, J. D. (2024, May) Heatwave duration correlates with the poor recruitment of oysters in northern Gulf of Mexico coastal waters. *Gulf of Mexico Coastal Ocean Observing System Spring Meeting*, Galveston, TX

Plumlee, J. D. (2024, April) Habitat, trophic ecology, and secondary production in coastal marine fisheries. Invited Speaker. University of New Orleans. New Orleans, LA.

Plumlee, J. D. (2023, December) Calculating a shell budget across an estuarine gradient. Building Resilience for Oysters, Blue Crab, and Spotted Seatrout to Environmental Trends and Variability in the Gulf of Mexico, All Hands Symposium, Mobile, AL

Plumlee, J. D. (2023, October) Habitat, trophic ecology, and secondary production in coastal marine fisheries. Invited Speaker. Texas A&M University at Galveston. Galveston, TX.

Conference Presentations (40):

Mentored: #graduate student; *undergraduate/technician; §postdoctoral researcher

Hura, E. #, Drymon, J. M., Herrmann A., Powers, S. P., **Plumlee J. D.** (March 2026) Identifying population contingents using biogeochemical markers in Atlantic tripletail (*Lobotes surinamensis*). Southern Division American Fisheries Society Annual Meeting, New Orleans, LA

- Robicheaux, E. S. [#], La Peyre, M. K., **Plumlee, J. D.** (March 2026) Oyster-based living shoreline influences fish and invertebrate communities in Biloxi Marsh, Louisiana. Southern Division American Fisheries Society Annual Meeting, New Orleans, LA
- Miller, M. J. ^{*}, Henderson, O. R. ^{*}, Moyo, S., Hayes, M. P., **Plumlee, J. D.** (March 2026) Deriving Mercury Exposure Risk from the Feeding Ecology of Sharks in Coastal Louisiana. Southern Division American Fisheries Society Annual Meeting, New Orleans, LA
- Kassuba, Z. J. [#], La Peyre, M. K., Dance, M.A, Patron, K. ^{*}, **Plumlee, J. D.** (March 2026) Survey of Oyster-Based Living Shorelines Using High-Resolution Acoustic Imaging Sonar in Breton Sound, LA. Southern Division American Fisheries Society Annual Meeting, New Orleans, LA
- Davenport, T. M. ^{\$}, La Peyre, M. K., Hopper, G. W., Nyman, J. A., **Plumlee J. D.** (November 2025) Does the presence of *Phragmites australis* affect estuarine nekton abundance in coastal Louisiana, USA? 28th Coastal & Estuarine Research Federation Biennial Conference, Richmond, VA.
- Guo, Y. ^{\$}, Roberts, B.J., Nyman, J.A., **Plumlee, J.D.**, Davenport, T.M., Hopper, G.W., La Peyre, M. K., (November 2025) Expansion trends of non-native *Phragmites australis* and its impact on the Louisiana Gulf Coast. 28th Coastal & Estuarine Research Federation Biennial Conference, Richmond, VA.
- Plumlee, J. D.**, Liu, Z. Baker, R., Dzwonkowski, B., Ehrmann, H., Lehrter, J. C., Powers, S. P. (2025, November) Recruitment phenology correlates with long-term changes to temperature and hydrology in a dynamic northern Gulf of Mexico estuary. 28th Coastal & Estuarine Research Federation Biennial Conference, Richmond, VA.
- Robicheaux, E.S.[#], Davenport, T.M., Hopper, G.W., La Peyre, M.K., Nyman, J.A., **Plumlee, J.D.** (2025 November) Estuarine nekton community changes in response to saltmarsh restoration and *Phragmites australis* in coastal Louisiana. Coastal and Estuarine Research Federation 28th Biennial Conference, Richmond, VA.
- Wray, M. G.^{*}, Hopper, G. W., Nyman, J. A., La Peyre, M. K., Robicheaux, E.S.[#], **Plumlee, J. D.** (November 2025) The LENS Project: Transparent data for calculating the biomass of Louisiana nekton. 28th Coastal & Estuarine Research Federation Biennial Conference, Richmond, VA.
- Hura, E. [#], Baker, R., Ehrmann, H., Herrmann, A. Powers, S. P., **Plumlee J. D.** (November 2025) Sex-specific differences in habitat use for *Cynoscion nebulosus* in a dynamic Gulf estuary. 28th Coastal & Estuarine Research Federation Biennial Conference, Richmond, VA.
- Robicheaux, E.S.[#], La Peyre, M.K., **Plumlee, J.D.** (2025 August) Oyster-based living shoreline influences estuarine communities on the Louisiana Gulf Coast. American Fisheries Society 155th Annual Meeting, San Antonio, TX.
- Wray, M. G.^{*}, Hopper, G. W., Nyman, J. A., La Peyre, M. K., Robicheaux, E.S.[#], **Plumlee, J. D.** (August 2025) The LENS Project: Transparent data for calculating the biomass of Louisiana nekton. 155th Annual American Fisheries Society Meeting, San Antonio, TX.
- Kassuba, Z. J. [#], La Peyre, M. K., Dance, M.A, **Plumlee, J. D.** (2025 August) Evaluating Oyster-Based Living Shorelines Using High-Resolution Acoustic Imagery. American Fisheries Society Annual Meeting, San Antonio, TX.

- Hura, E. #, Baker, R., Ehrmann, H., Herrmann, A. Powers, S. P., **Plumlee J. D.** (August 2025) Sex-specific differences in habitat use for *Cynoscion nebulosus* in a dynamic estuary. 155th Annual American Fisheries Society Meeting, San Antonio, TX.
- Plumlee, J. D.**, Powers S. P., Drymon, J. M., Herrmann A. (August, 2025) Investigation of Atlantic Tripletail (*Lobotes surinamensis*) migration using natural and electronic tags. American Fisheries Society Annual Meeting, San Antonio, TX.
- Robicheaux, E.S.#, Davenport, T.M., Hopper, G.W., La Peyre, M.K., Nyman, J.A., **Plumlee, J. D.** (2025 May) Saltmarsh restoration and invasive roseau cane (*Phragmites australis*) influences on estuarine communities in Terrebonne Basin, Louisiana. Louisiana Chapter of the American Fisheries Society Spring Meeting 2025, Baton Rouge, LA.
- Wray, M. G*, Hopper, G. W., Nyman, J. A., La Peyre, M. K., Robicheaux, E.S.#, **Plumlee, J. D.** (May 2025) The LENS Project: Transparent data for calculating the biomass of Louisiana nekton. Louisiana American Fisheries Society Spring Meeting 2025, Baton Rouge, LA.
- Kassuba, Z. J. #, **Plumlee, J. D.**, Sable, S. E., Stephens, T. A., La Peyre, M. K. (2025 May) Development of an oyster-based living shoreline (OLS) habitat suitability model for Coastal Louisiana. Louisiana Chapter of American Fisheries Society Spring Meeting, Baton Rouge, LA.
- Hura, E. #, Baker, R., Ehrmann, H., Herrmann, A. Powers, S. P., **Plumlee J. D.** (May 2025) Sex-specific differences in habitat use for *Cynoscion nebulosus* in a dynamic estuary. Louisiana Chapter of the American Fisheries Society Spring Meeting 2025, Baton Rouge, LA.
- Henderson, O. R. *, Robicheaux, E. S. #, Kassuba, Z. J. #, **Plumlee, J. D.**, La Peyre, M. K. (2024, December) Tracking the co-benefits of oyster restoration and fisheries support at the largest estuarine living shoreline in the northern Gulf of Mexico. *Biannual Gulf Estuarine Research Society Meeting*, Fairhope, AL.
- Kassuba, Z. J. #, **Plumlee, J. D.**, Dance, M. A., La Peyre, M. K. (2024, December) Assessing oyster density on submerged structures using high-resolution acoustic imagery. *Biannual Gulf Estuarine Research Society Meeting*, Fairhope, AL.
- Guo, Y. \$, Roberts, B. J., **Plumlee, J. D.**, Nyman, J. A., Davenport, T. M.\$, Hopper, G. W., La Peyre, M. K. (2024, December) Expansion trends of invasive *Phragmites australis* and its impact in the Louisiana Gulf Coast. *Biannual Gulf Estuarine Research Society Meeting*, Fairhope, AL.
- Plumlee, J. D.**, Liu, Z. Baker, R., Dzwonkowski, B., Ehrmann, H., Lehrter, J. C., Powers, S. P. (2024, November) Recruitment phenology correlates with long-term changes to temperature and hydrology in a dynamic northern Gulf of Mexico estuary. *Bays and Bayous Annual Conference*, Biloxi, MS.
- Plumlee, J. D.**, Powers S. P., Drymon, J. M. (2024, May) Identifying intra-population migratory contingents of Tripletail (*Lobotes Surinamensis*) using natural tracers. *Annual Meeting of the Louisiana Chapter: American Fisheries Society*, Thibodaux, LA.
- Plumlee, J. D.**, Powers S.P., Kimbro D.L., Lehrter J.C., Herrmann J., Mareska J. (2023, January) Heatwave duration correlates with the poor recruitment of oysters in northern Gulf of Mexico coastal waters. *Gulf and Caribbean Fisheries Institute Annual Meeting*, Nassau, The Bahamas.
- Plumlee, J. D.**, Powers S.P., Herrmann J., Mareska J. (2023, January) Heatwave duration correlates with the poor recruitment of oysters in Alabama coastal waters. *Bays and Bayous Annual Conference*, Mobile, AL.

- Plumlee, J. D.,** Roskar, G., Craig, J. K., Fodrie, F. J. (2021, November) Identifying gillnet bias in the sampling of estuarine predators within a temperate estuary. *American Fisheries Society Meeting*, Baltimore, MD.
- Plumlee, J. D.,** Branham, C., Ryburn, S., Fodrie, F. J. (2021, November) Elucidating trophic and habitat partitioning of a diverse marine predatory community. *Coastal & Estuarine Research Federation Meeting*, Online.
- Plumlee, J. D.,** Branham, C., Ryburn, S., Fodrie, F. J. (2021, February) Elucidating trophic and habitat partitioning of a diverse marine predatory community. *North Carolina Chapter: American Fisheries Society Annual Conference*, Online.
- Plumlee, J. D.,** Yeager, L. A., Fodrie, F. J. (2019, November) Assessing the role of saltmarsh production in subsidizing adjacent food webs. *Coastal & Estuarine Research Federation Meeting*, Mobile, AL.
- Plumlee, J. D.,** Dance, K. M., Dance, M. A., Rooker, J. R., Shipley, J. B., TinHan, T. C., Wells, R. J. D. (2018, August) Fish community structure associated with artificial reefs in the northwest Gulf of Mexico. *American Fisheries Society Meeting*, Atlantic City, NJ.
- Plumlee, J. D.,** Dance, K. M., Dance, M. A., Rooker, J. R., Shipley, J. B., TinHan, T. C., Wells, R. J. D. (2018, April) Fish community structure associated with artificial reefs in the northwest Gulf of Mexico. *Ecological Integration Symposium*, College Station, TX.
- Plumlee, J. D.,** Dance, K. M., Matich, P., Mohan, J. A., Richards, T. M., TinHan, T. C., Wells, R. J. D. (2017, July) Community structure of elasmobranchs in estuaries along the northwest Gulf of Mexico. *Joint Meeting of Ichthyologists and Herpetologists*, Austin, TX.
- Plumlee, J. D.,** Rooker, J. R., Shipley, B., Wells, R. J. D. (2017, July) Feeding ecology of reef fishes utilizing stable isotope biomarkers. *Joint Meeting of Ichthyologists and Herpetologists*, Austin, TX.
- Plumlee, J. D.,** Dance, K. M., Dance, M. A., Rooker, J. R., TinHan, T. C., Wells, R. J. D. (2017, January) Comparison of high and low relief structure to reef utilizing artificial reefs along the northern Texas coast. *Texas Artificial Reef Consortium 3rd Annual Meeting*, Corpus Christi, TX.
- Plumlee, J. D. & Wells, R. J. D.** (2016, July). Feeding ecology of three coastal shark species in the northwest Gulf of Mexico. *Joint Meeting of Ichthyologists and Herpetologists*, New Orleans, LA.
- Plumlee, J. D. & Wells, R. J. D.** (2016, January). Feeding ecology of coastal sharks in the northwest Gulf of Mexico. *Texas Chapter: American Fisheries Society Annual Conference*, Kerrville, TX.
- Plumlee, J. D. & Wells, R. J. D.** (2015, May). Feeding ecology of coastal sharks in the northwest Gulf of Mexico. *66th Annual Tuna Conference*, Lake Arrowhead, CA.
- Plumlee, J. D. & Wells, R. J. D.** (2015, April). Feeding ecology of coastal sharks in the northwest Gulf of Mexico. *Texas A&M at Galveston, 11th Annual Student Research Symposium*, Galveston, TX.
- Plumlee, J. D. & Wells, R. J. D.** (2015, January). Feeding ecology of coastal sharks in the northwest Gulf of Mexico. *Marine Biology Department 3rd Annual Retreat*, Bryan, TX.

Dissertation and Theses (3):

Plumlee, J.D. (2022). *The Role of the Estuarine Habitat Mosaic in the Trophic Ecology and*

Secondary Production of Coastal Marine Consumers. (Dissertation). University of North Carolina at Chapel Hill, Chapel Hill, NC

Plumlee, J. D. (2018). *Community structure and feeding ecology of fishes on artificial reefs in the northwest Gulf of Mexico*. (Master's Thesis). Texas A&M University, College Station, TX

Plumlee, J. D. (2015). *Feeding ecology of coastal sharks in the northwest Gulf of Mexico*. (Undergraduate Thesis). Texas A&M University at Galveston, Galveston, TX.

Graduate Committees (Chair):

Emily Hura, Degree Program: **Ph.D.**, Role: **Committee Chair**, Thesis Title: "Sex-specific differences in habitat use for Spotted Seatrout". Anticipated Graduation Date, May 2028

Zachary Kassuba, Degree Program: **M.S.**, Role: **Committee Chair**, Thesis Title: "Evaluating suitable habitat for oyster-based living shorelines." Anticipated Graduation Date: May 2026

Emily Robicheaux, Degree Program: **M.S.**, Role: **Committee Chair**, Thesis Title: "Evaluating living shorelines as fish habitat for resident and non-resident species" Anticipated Graduation Date: May 2026

Parker Denton, Degree Program: **Ph.D.**, Role: **Committee Chair**, Thesis Title: "Tripletail population contingents and migration assessed using natural tracers." Anticipated Graduation Date: May 2029

Megan Myers, Degree Program: **Ph.D.**, Role: **Committee Chair**, Thesis Title: "Phytoplankton Toxins in northern Gulf of Mexico Estuaries", Anticipated Graduation Date: August 2027

Undergraduate Mentees (Chair):

Madison Wray, Degree Program, **B.S.** Role: **Honors Advisor**, Project Title: "The LENS Project: Transparent data for calculating the biomass of Louisiana nekton." Anticipated Graduation Date: May 2026

Katherine Patron, Degree Program, **B.S.** Role: **Louisiana State University Gulf Scholars Program Mentor**, Project Title: "Validating novel survey methods for estimating population size and demographics of reef-building bivalves in Louisiana estuaries." Anticipated Graduation Date: May 2029

Mallory Miller, Degree Program, **B.S.** Role: **Undergraduate Research Advisor**, Project Title: "Feeding ecology and mercury concentrations in Louisiana blacktip and bull sharks." Anticipated Graduation Date May 2026

Olivia Thibodeaux, Degree Program, **B.S.** Role: **Louisiana State University Gulf Scholars Program Mentor**, Project Title: "Examination of macroalgal and biofouling communities on created reef structures in a subtidal estuary." Anticipated Graduation Date: May 2030

Mariann (Rose) Dawes, Degree Program, **B.S.** Role: **Undergraduate Research Advisor**, Project Title: "Examination of microalgal and other benthic communities on created reef structures in a subtidal estuary." Anticipated Graduation Date: May 2027

Graduate Committees (Member):

Kathryn Motley, Degree Program: **M.S.**, Primary Advisor: E. Robinson, Thesis Title: “Oyster polyculture in Louisiana”, Anticipated Graduation Date: May 2027

Allen Schaefer, Degree Program: **M.S.**, Primary Advisor: E. Watts, Thesis Title: “Exploring novel Alligator Gar fisheries in Louisiana”, Anticipated Graduation Date: May 2027

Student Awards:

Mariann (Rose) Dawes, Undergraduate Research Grant, **\$7,000**, (2026 - 2027), *Louisiana State University – College of Agriculture*

Emily Robicheaux, Best Graduate Presentation Runner-Up (2026), Southern Division American Fisheries Society Annual Meeting, New Orleans, LA

Emily Robicheaux, Glasgow Travel Grant, **\$2000**, (2025, 2026), *Louisiana State University College of Agriculture*

Madison Wray, Best Undergraduate Poster (2025, November), Coastal and Estuarine Research Federation Biannual Meeting, Richmond, VA

Emily Robicheaux, Dr. Jack and Annagreta Hojhdal Van Lopik Superior Graduate Student Research Scholarship Program, **\$10,000**, (2025), *Louisiana Sea Grant*

Emily Robicheaux, Travel Grant, **\$425**, (2025), *Coastal and Estuarine Research Federation*

Emily Hura, Glasgow Travel Grant, **\$1000**, (2025), *Louisiana State University – College of Agriculture*

Zachary Kassuba, Glasgow Travel Grant, **\$690**, (2025), *Louisiana State University – College of Agriculture*

Emily Robicheaux, Travel Grant, **\$400**, (2025), *American Fisheries Society*

Emily Hura, Dr. Jack and Annagreta Hojhdal Van Lopik Superior Graduate Student Research Scholarship Program, **\$20,000**, (2024, 2025), *Louisiana Sea Grant*

Zachary Kassuba, Student Travel Award, **\$300**, (2024, September), *Gulf Estuarine Research Society*

Advisory Panels:

Gulf States Marine Fisheries Commission, Marine Fisheries Extension Advisory Panel, Member (2023 – *present*)

Coastal Wetlands Planning Protection and Restoration Act Environmental Working Group, Academic Advisory Panel, Member (2024 – *present*)

Gulf of Mexico Fishery Management Council, Recreational Initiative Working Group, Member (2024 – 2025)

Professional Organizations:

American Society for Ichthyologists and Herpetologists, Member

American Elasmobranch Society, Member

American Fisheries Society, Member

American Fisheries Society Louisiana Chapter, Member

Sigma Xi, Member

Gulf and Caribbean Fisheries Institute, Member

Professional Organization Committees:

American Fisheries Society Louisiana Chapter, Graduate Student Awards Committee

University Committees:

School of Renewable Natural Resources Program Review Committee – Member (2024)

School of Renewable Natural Resources Hiring Committee for new Aquaculture Faculty – Member (2024 – 2025)

School of Renewable Natural Resources Scholarship Committee – Member (2024 – *present*)

Service:

- Manuscript reviewer for: *Ecosystems*, *Environmental Biology of Fishes*, *Journal of Fish Biology*, *Marine Ecology Progress Series*, *Hydrobiologia*, *Coastal and Marine Fisheries*, *Ecosphere*, *Proceedings of the Royal Society B*, *North American Journal of Fisheries Management*, *Biological Invasions*, *Endangered Species Research*, *Aquaculture Environment Interactions*, *Environmental Research Letters*, *Restoration Ecology*
- Articles reviewed to date: 24
- Proposal reviewer for: Delaware Sea Grant College Program, U.S. Coastal Research Program (USCRP), Louisiana Sea Grant College Program, Virginia Institute of Marine Sciences
- Associate Editor for *Gulf and Caribbean Research*; Guest Editor for *Louisiana Agriculture*