

Jeffrey David Plumlee

Louisiana State University
334 Renewable Natural Resources Building
Baton Rouge, Louisiana
Phone: (225) 578-4102
Email: jplumlee@agcenter.lsu.edu

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:

Mullins, 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*.

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.

Dissertation and Theses:

- 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.

Extension Publications:

- Plumlee, J. D.** (2023, September) Chasing Tripletail. *Lagniappe*. Louisiana Sea Grant and Louisiana State University Agricultural Center. 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, December) The efficacy of slot limits. *Lagniappe*, Louisiana Sea Grant and Louisiana State University Agricultural Center. Baton Rouge, LA

Walker, M. M., Gambill, H., Seibert, D., **Plumlee, J. D.**, Lively, J. A. (2024, February). How to vent a fish. Factsheet. *Louisiana Sea Grant*.

Conference Presentations:

Plumlee, J. D., S.P. Powers, D.L. Kimbro, J.C. Lehrter, J. Herrmann, J. Mareska. (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., S. Powers, J. Herrmann, J. Mareska. (2023, January) Heatwave duration correlates with the poor recruitment of oysters in Alabama coastal waters. *Bays and Bayous Biennial Meeting*, 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.

Public Engagement:

- Plumlee, J. D.** (2024, February) Interviewed on red drum catch limit changes. *WWL 870*. Interviewed by Tommy Tucker. New Orleans, LA
- Plumlee, J. D.** (2024, January) “Will Louisiana tighten redfish catch limits? First change in decades may be on the way”. *The Advocate*, Baton Rouge, LA.
- 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.
- Plumlee, J. D.** (2020, August). “Shark Week: Carteret County scientists research, educate year -round” *Carteret County News Times*, New Bern, NC.
- Plumlee, J. D.** (2020, August). “Researchers working to protect shark population, food sources in North Carolina.” *WITN 9*. News segment published by local news affiliate, Greenville, NC.
- Plumlee, J. D.** (2019, July). “Researchers speak on recent shark attacks.” *WITN 9*, Greenville, NC.
- Plumlee, J. D.** (2019, July). “Shark myths versus reality.” *WCTI 12*, New Bern, NC.
- Plumlee, J. D.** (2019, June). “Shark awareness after second shark bite on NC coast”. *WITN 9*, Greenville, NC.
- Plumlee, J. D.** (2019, June). “Are we safe?” *News and Observer*. Invited speaker. North Carolina Museum of Natural Sciences, Raleigh, NC.
- Plumlee, J. D.** (2015, March). “Methods in assessing the ecology of sharks.” In *Sharks! A Lecture Series*. Invited speaker. Houston Museum of Natural Science, Houston TX.

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)

Academic Organizations:

- American Society for Ichthyologists and Herpetologists, Member (2014 – present)
- American Elasmobranch Society, Member (2014 – present)

American Fisheries Society, Member (2014 – present)
American Fisheries Society Louisiana Chapter, Member (2023 – present)
American Fisheries Society North Carolina Chapter, Member (2019 –2021)
American Fisheries Society Texas Chapter, Member (2015 –2018)
Sigma Xi, Member (2023 – present)

Extramural Funding:

ARPA Dissertation Completion Grant \$7,500 (2021)
American Fisheries Society, North Carolina Chapter: Minigrant \$981 (2020)
North Carolina Sea Grant Minigrant \$9,950 (2019)
Title: “Stable isotopes as a tool to elucidate trophic and habitat partitioning of a diverse marine predatory community.”
American Fisheries Society, Texas Chapter: Harry Tennyson Scholarship \$1,500 (2016)
Texas Institute of Oceanography Undergraduate Research Grant \$3,300 (2014)
Texas Sea Grant Undergraduate Research Grant \$1,000 (2014)

Certifications:

- PADI open-water SCUBA certification (2003), PADI open-water advanced SCUBA certification (2015), SDI Nitrox certification (2016), AAUS Scientific Diver (2016)
- Texas Parks and Wildlife and North Carolina Wildlife Resources Commission certified small boat operator (2013, 2019)
- US Powerboating operating certification (2017)
- First Aid/CPR certified (2013,2016, 2019)

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*