

Jeffrey David Plumlee

Ocean and Coastal Science Building, Room 106 & 108

1001 Texas Clipper Road, Galveston, TX 77554

Phone: (765) 532-8526

Email: jeffreydplumlee@gmail.com

Education:

M.S. in Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX
Anticipated Graduation Date: August, 2018; *GPA 4.0*

B.S. in Marine Fisheries, Texas A&M University at Galveston, Galveston, TX
Graduation Date: December, 2015; *GPA 3.71*

A.S. in Criminal Justice, Ivy Tech Community College, Lafayette, IN
Graduation Date: December, 2012

Research Experience:

Research Assistant, Texas A&M at Galveston (2016 – Present):

Worked the Shark Biology and Fisheries Science laboratory at Texas A&M University at Galveston under the direction of Professor R.J. David Wells, Duties included:

- Quantitative sampling using vertical longline and fish traps
- Boat trailering, offshore and inshore vessel operation (200+ hours)
- Bottom longline gear preparation and use
- Use of DIDSON active acoustic system (ARIS Explorer 1800)
- Analysis of biomass estimates and spatial relationships from active acoustics data
- Tissue preparation for stable isotope analyses
- Fatty acid extraction of tissue and quantification of fatty acid methyl esters (FAMES) using gas chromatography
- Quantitative analyses of stable isotope and fatty acid ratios

Teaching Assistant, Texas A&M at Galveston (2016 – Present):

Teaching assistant for the undergraduate Field Ichthyology class at Texas A&M University at Galveston taught by R.J. David Wells, Duties included:

- Exam and report grading
- Lecture preparation and presentation
- Organizing class curriculums and rubrics
- Coordinating multiple overnight and day trips for ≈25 students

Shark Biology and Fisheries Science Laboratory Technician (2013-2016):

Worked in the Shark Biology and Fisheries Science laboratory at Texas A&M University at Galveston under the direction of Professor R.J. David Wells, Duties included:

- Satellite tagging Scalloped Hammerhead, Bull, and Blacktip Sharks (including 300+ hours of boat time)
- Sample preparation for stable isotope and trace element analysis
- 700+ Dissections and necropsies on deceased sharks and teleost fishes
- Larval and juvenile fish identification
- Stomach content analysis and taxonomic identification
- Aging via vertebral band counting of sharks
- Gear preparation, gear maintenance, and chemical and waste management

Projects involved in:

- Tracking Apex Predators in the Gulf of Mexico
- Ecology of Artificial Reefs in the northwest Gulf of Mexico
- Feeding Ecology of Coastal Sharks in the northwest Gulf of Mexico
- Fish Community Structure following the Deepwater Horizon Oil Spill
- Movement & Connectivity of Bull Sharks in the Gulf of Mexico

Aquaculture Laboratory Technician (Summer, 2004):

Worked in the aquaculture and fisheries laboratory at Purdue University under the direction of Professor Paul Brown. Duties included:

- Maintaining fish cultures
- Cleaning and maintenance of tanks and aquaculture equipment
- Non-hazardous chemical application
- Assisting graduate students with research projects

Peer-Reviewed Publications:

Plumlee, J. D., Dance, K. M., Matich, P., Mohan, J. A., Richards, T. M., TinHan, T. C., Fisher, M. R., Wells, R. J. D. (In Review). Community structure of elasmobranchs in estuaries along the northwest Gulf of Mexico. *Estuarine, Coastal and Shelf Science*, submitted August, 7th 2017.

Bird, C., Trueman, C., Verissimo, A., Magozzi, S. ... **Plumlee, J. D.**, et al. (In Press). A global perspective on the trophic geography of sharks. *Nature Ecology & Evolution*, submitted March, 3rd 2017.

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.

Theses:

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.

Conference Presentations:

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*. Oral presentation at the 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*. Poster presentation at the 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*. Oral presentation at the 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*. Poster presentation at the Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA.

Cullen, J., TinHan, T. C., **Plumlee J. D.**, Wells R. J. D., & Marshall, C. (2016, January) *Impact of Allometry and Feeding Biomechanics on Ontogenetic Dietary Shifts in Three Coastal Sharks*. Oral presentation at the Society for Integrative & Comparative Biology Annual Meeting, Portland, OR.

Plumlee, J. D. & Wells, R. J. D. (2016, January). *Feeding ecology of coastal sharks in the northwest Gulf of Mexico*. Oral presentation at the 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.* Poster presentation at the 66th Annual Tuna Conference, Lake Arrowhead, CA.

Symposia Presentations:

Plumlee, J. D. & Wells, R. J. D. (2015, January). *Feeding ecology of coastal sharks in the northwest Gulf of Mexico.* Poster session presented at the Marine Biology Department 3rd Annual Retreat, Bryan, TX.

Plumlee, J. D. & Wells, R. J. D. (2015, April). *Feeding ecology of coastal sharks in the northwest Gulf of Mexico.* Poster session presented at the Texas A&M at Galveston, 11th Annual Student Research Symposium, Galveston, TX.

Awards: 2nd Place Overall, 1st Place in Category (Marine Biology)

Invited Lectures:

Plumlee, J. D.* (2015, March). Methods in assessing the ecology of sharks. In *Sharks! A Lecture Series.* Lecture presented at the Houston Museum of Natural Science, Houston TX.

Volunteer Positions:

Texas Parks and Wildlife Department Volunteer (2013-Present):

Volunteered for various management related projects under the direction of Derek York, lead technician at the Dickinson, TX office, for the Texas Parks and Wildlife Department. Duties included:

- Bottom long-lining and otter trawling in the Gulf of Mexico
- Gill netting in Galveston Bay
- Gear preparation for Vertical and Bottom Long lining
- 150+ Hours of boat time

Coastal Brigade, Treasurer (2015 – Present):

Served on the committee to form Coastal Brigade, an organization within the Texas Brigades system, which is a youth leadership group focusing on conservation and ecosystem management. Duties included:

- Creating a coastal conservation based curriculum for youth ages 13 – 17
- Organizing finances, including donations and purchases, for a non-profit organization
- Serving on sub-committees; Curriculum, Fundraising, and Marketing

Outreach:

- Shark Weekend (2013, August) and (2014, August) Downtown Aquarium, Houston, TX (*Booth*)
- Shark Day (2015-2017, May) Gillmore Elementary, League City, TX (*Booth*)

Academic Organizations:

- *Phi Kappa Phi*, National Honors Society (2014)
- *Beta Beta Beta*, Biological Honors Society (2014)
- Undergraduate Research Scholar (2015)
- Texas Institute of Oceanography Undergraduate Research Fellowship (2014-2015)
- American Fisheries Society, Member (2014 – present)
- American Fisheries Society Texas Chapter, Member (2015 – present)

Scholarships and Grants:

Academic:

Aye, Aye Captain Memorial Scholarship \$1,000 (2014)
William P. Ricker Memorial Scholarship \$1,600 (2014-2015)
McDaniel Charitable Foundation Grant \$1,200 (2014-2015)
TAMUG Academic Scholarship \$4,000 (2014-2015)
L & R Midland Scholarship \$1,000 (2015)
W. B. Davis Scholarship \$1,000 (2016-2017)
Richard Baldauf Scholarship \$1,000 (2016-2017)

Research:

Texas Institute of Oceanography Undergraduate Research Grant \$3,300 (2014-2015)
Texas Sea Grant Undergraduate Research Grant \$1,000 (2014-2015)
TCAFS: Harry Tennyson Scholarship \$1,500 (2016)

Skills:

- Extensive field research experience working with sharks and large teleost fishes including capture and tagging (4 years)
- Experience with fisheries sampling techniques such as long-lining, seining, gill netting and field identification of fishes and invertebrates (4 years)
- Laboratory identification of larval and early life stage fishes (4 years)

- PADI open-water SCUBA certification (2003), PADI open-water advanced SCUBA certification (2015), SDI Nitrox certification (2016), AAUS scientific diver (2016)
- Proficient in SPSS, SYSTAT (v13), PRIMER (v5, v6, v7), Sigmaplot (v13), PAST3, MATLAB, and R (MATH 6315 *Statistical Methods in Research I*, MATH 6316 *Statistical Methods in Research II*, Texas A&M University at Corpus Christi, WFSC 624 *Dynamics of Population*, MARB 460 *Fisheries Population Dynamics*, MARB 303 *Biostatistics*, MARB 457 *Marine Fisheries Management*, Texas A&M University at Galveston)
- TPWD certified small boat operator (2013)
- US Powerboating operating certification (2017)
- Texas A&M University at Galveston vessel operator (2017)
- First-aid/CPR certified (2013,2016)
- Manuscript reviewer for: *Environmental Biology of Fishes*, *Journal of Fish Biology*

References:

R.J. David Wells, Associate Professor, Texas A&M at Galveston, Galveston, TX
Phone: (409) 740-4989; Email: wellsr@tamug.edu

Jay R. Rooker, Regents Professor, Texas A&M University, Galveston, TX
Phone: (409) 740-4744; Email: rookerj@tamug.edu

Christopher D. Marshall, Professor, Texas A&M at Galveston, Galveston, TX
Phone: (409) 740-4884; Email: marshalc@tamug.edu