

## Matthew Jargowsky

Extension Associate & Marine Fisheries Specialist  
Mississippi State University & Mississippi-Alabama Sea Grant Consortium  
MSU Coastal Research and Extension Center  
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### Education

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#### **Master of Science** in Wildlife, Fisheries, and Aquaculture

Mississippi State University  
Spring 2018 - Spring 2019, GPA – 4.0

**Advisor:** Dr. J. Marcus Drymon,

**Thesis:** *Life history patterns and the spatial and trophic ecology of batoids in a northern Gulf of Mexico estuary*

#### **Bachelor of Science** in Wildlife Ecology

University of Maine, Orono  
Fall 2009 - Fall 2012, GPA – 3.4

### Employment

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#### **Extension Associate**

*Mississippi State University Coastal Research and Extension Center, Mississippi-Alabama Sea Grant Consortium, Marine Fisheries Ecology Lab, Biloxi, MS*

1/19-Present

- Lead bottom longline survey which sampled fish communities within and outside Alabama's Artificial Reef Permit Zone.
- Analyze data for peer-review publications, working papers, and technical reports.
- Write peer-reviewed publications, technical reports, working papers, and MSU Extension publications.
- Conduct outreach, education, and Extension events to share information to stakeholders
- Work with commercial and charter-for-hire fishers to help offset the impacts COVID-19 has had on their businesses.
- Tag tarpon and great hammerheads with satellite tags for movement studies.
- Section and age otoliths of various fish species.
- Examine stomach contents of various fish species to investigate diet.
- Supervise and manage intermittent workers

Updated 12/1/21

### **Graduate Research Assistant**

*Mississippi State University, Biloxi, MS*

1/18-12/18

- Completed thesis investigating the spatial and trophic ecology of batoids in a northern Gulf of Mexico estuary.
- Sampled fish communities within and outside Alabama's Artificial Reef Permit Zone using bottom longlines.
- Examined stomach contents of various fish species to investigate diet.
- Assisted with outreach and extension events to help communicate our science to the public.
- Tagged tarpon with SPOT tags for tarpon tagging project.

### **Research Technologist I**

*Dauphin Island Sea Lab, Fisheries Ecology Lab, Dauphin Island, AL*

3/16-12/17

- Sampled fish communities within and outside Alabama's Artificial Reef Permit Zone using bottom longlines, vertical longlines, and trawls.
- Led BOEM project that assessed the health of juvenile penaeid shrimp and blue crabs.
- Led field days for a red snapper tagging study looking at recreational fishing pressure.
- Trailered and operated small boats for fisheries research (gillnetting, trawling, dropping off divers, etc.) in coastal and offshore waters.
- Sectioned and aged otoliths of various fish species.
- Examined stomach contents of various fish species to investigate diet.

### **NRDA Oyster Intake Lab Team Leader**

*Dauphin Island Sea Lab, Dauphin Island, AL*

9/15-2/16

- Sorted quadrats from eastern oyster beds, performed condition analysis by weighing, sexing, and measuring gonad width, and analyzed settlement plates for spat recruitment.
- Scheduled intake, photographed, and organized said samples for archive.

### **Hatchery Technician**

*New Jersey Aquaculture Innovation Center, Cape May, NJ*

4/13-8/13, 2/14-12/14, 3/15-9/15

- Stripped and naturally induced spawning of eastern oysters, reared larvae and post-set juvenile oysters.
- Assisted in naturally induced spawning of surf clams and ribbed mussels, reared of larval and juvenile surf clams.
- Reared and hatching of horseshoe crab eggs and juveniles.
- Performed daily record keeping, maintenance of hatchery and nursery grow-out system tanks and equipment.
- Sorted oyster bushels from dredged oyster beds to quantify new oyster spat.

## Student Researcher

Wetlands Institute, Coastal Conservation Research Program, Stone Harbor, NJ  
5/11-8/11

- Performed fieldwork with diamondback terrapins, such as trapping, building nest enclosures, roadkill surveys, inserting PIT tags, performing morphometrics, and egg removal and incubation from road-killed terrapins.
- Caught common snapping turtles, performed morphometrics and inserted PIT tags.
- Completed an independent project on New Jersey bald eagle prey selection by examining prey remains received from different nest sites.

## Peer-Reviewed Publications

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1. Jefferson AE, **Jargowsky MB**, Ivec GM, Cooper PT, Carroll J, Gervasi CL, Rehage JS, Mareska JF, Powers SP, Drymon JM. Age, growth, and diet of crevalle jack (*Caranx hippos*) in the Gulf of Mexico. Submitted to *Fisheries Management and Ecology*
2. Hightower CL, Drymon JM, Jefferson AE, **Jargowsky MB**, Seubert EA, Dedman S, Mareska JF, Powers SP. Population dynamics, relative abundance, and habitat suitability of adult red drum (*Sciaenops ocellatus*) indicate vulnerability to harvest in nearshore waters of the north central Gulf of Mexico. Submitted to *Fishery Bulletin*
3. Jefferson AE, **Jargowsky MB**, Schrandt MN, Cooper PT, Powers SP, Dindo JJ, Drymon JM. Age, growth, and mortality of Atlantic tripletail in the north-central Gulf of Mexico. 2021. Marine and Coastal Fisheries. Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science 13(3):183-199. (available [here](#))
4. Drymon JM, **Jargowsky MB**, Dance MA, Lovell M, Hightower CL, Jefferson AE, Kroetz AM, Powers SP. 2021. Documentation of Atlantic tarpon (*Megalops atlanticus*) space use and move persistence in the northern Gulf of Mexico facilitated by angler advocates. Conservation Science and Practice 3(2):e331. (available [here](#))
5. Miranda LE, Coppola G, Hatcher HR, **Jargowsky MB**, Moran ZS, Rhodes MC. 2021. A bird's-eye view of reservoirs in the Mississippi Basin tips a need for large-scale coordination. Fish and Fisheries 22(1):128-140. (available [here](#))
6. **Jargowsky MB**, Cooper PT, Ajemian MJ, Colvin ME, Drymon JM. 2020. Discerning the dietary habits of the smooth butterfly ray *Gymnura lessae* using two distinct methods, otolith identification and metagenetics. Journal of Fish Biology 96(2):434-443. (available [here](#))

## **Technical Reports and Working Papers**

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1. **Jargowsky MB**, Powers SP, Drymon JM. 2021. Size distribution and trends in relative abundance of scalloped hammerheads (*Sphyrna lewini*) in the northern Gulf of Mexico, 2006-2021. SEDAR77-DW06. SEDAR, North Charleston, SC. 11 pp.
2. Drymon JM, Jefferson AE, **Jargowsky MB**, Seubert EA, Dedman S, Mareska JF, Hightower CL, Powers SP. 2020. Understanding population dynamics of adult red drum (*Sciaenops ocellatus*). Report to Gulf of Mexico Fishery Management Council.

## **Conference Presentations**

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1. **Jargowsky MB**, Cooper PT, Drymon JM. 2021. Diet of Crevalle Jack (*Caranx hippos*) in the north-central Gulf of Mexico. Annual Meeting of the American Fisheries Society. Baltimore, MD. Virtual
2. Jefferson AE, **Jargowsky MB**, Ivec GM, Cooper PT, Carroll J, Gervasi CL, Rehage JS, Mareska JF, Powers SP, Drymon JM. 2021. Crevalle Jack (*Caranx hippos*) Age and Growth in the Gulf of Mexico. Annual Meeting of the American Fisheries Society. Baltimore, MD. Virtual
3. **Jargowsky MB**, Drymon JM, Dance MA, Lovell M, Hightower C, Jefferson AE, Kroetz A, Powers SP. 2021. Documentation of Atlantic tarpon (*Megalops atlanticus*) space use and move persistence in the northern Gulf of Mexico facilitated by angler advocates. Annual Meeting of the Mississippi Chapter of the American Fisheries Society. Virtual
4. **Jargowsky MB**, Drymon JM, Dance MA, Lovell MS, Hightower CL, Jefferson AE, Kroetz AM, Powers SP. 2020. Documentation of Atlantic tarpon (*Megalops atlanticus*) space use and move persistence in the northern Gulf of Mexico facilitated by angler advocates. Mississippi-Alabama Sea Grant Consortium Bays and Bayous Symposium. Virtual.
5. **Jargowsky MB**, Cooper PT, Drymon JM. 2019. Dietary habits of gafftopsail catfish, *Bagre marinus*, in the northern Gulf of Mexico revealed through DNA metabarcoding of stomach contents. Joint Meeting of the American Fisheries Society and the Wildlife Society. Reno, NV.
6. Drymon JM, **Jargowsky MB**, Jefferson AE, Kroetz AM, Hightower CL, Powers SP. 2019. Engaging stakeholders in cooperative research to track tarpon across the northern Gulf of Mexico. American Fisheries Society and the Wildlife Society Joint Annual Conference. Reno, NV.

7. Jefferson AE, **Jargowsky MB**, Schrandt MN, Cooper PT, Powers SP, Dindo JJ, Drymon JM. 2019. Tripletail (*Lobotes surinamensis*) age and growth in the north-central Gulf of Mexico. Joint Meeting of the American Fisheries Society and the Wildlife Society. Reno, NV.
8. **Jargowsky MB**, Cooper PT, Drymon JM. 2018. Dietary habits of *Gymnura lessae* revealed through DNA metabarcoding of stomach contents. Mississippi-Alabama Sea Grant Consortium Bays and Bayous Symposium. Mobile, AL.
9. Drymon JM, **Jargowsky MB**, Jefferson AE, Kroetz AM, Hightower CL, Powers SP. 2018. Tracking tarpon across the northern Gulf of Mexico: A citizen science success. Mississippi-Alabama Sea Grant Consortium Bays and Bayous Symposium. Mobile, AL.
10. **Jargowsky MB**, Cooper PT, Drymon JM. 2018. Dietary habits of *Gymnura lessae* revealed through DNA metabarcoding of stomach contents. Joint Meeting of Sharks International and the American Elasmobranch Society. João Pessoa, Brazil.
11. **Jargowsky MB**, Drymon JM. 2017. Spatial Ecology of Rays in Mobile Bay. Joint Meeting of Ichthyologists and Herpetologists and the American Elasmobranch Society. Austin, TX.
12. **Jargowsky MB**, Drymon JM. Spatial Ecology of Stingrays in Mobile Bay (Poster). 2016. Mississippi-Alabama Sea Grant Consortium Bays and Bayous Symposium. Biloxi, MS.

## **Extension Publications**

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1. **Jargowsky MB**, Osowski AR, Jefferson AE, Drymon JM. 2021. Gulf Coast Fisherman Newsletter, Issue 23. Mississippi-Alabama Sea Grant Consortium publication MASGP-21-001-03.
2. Jefferson AE, **Jargowsky MB**, Drymon JM. 2021. Gulf Coast Fisherman Newsletter, Issue 22. Mississippi-Alabama Sea Grant Consortium publication MASGP-21-001-02.
3. Mullins L, **Jargowsky MB**, Jefferson AE, Drymon JM. 2021. Gulf Coast Fisherman Newsletter, Issue 21. Mississippi-Alabama Sea Grant Consortium publication MASGP-21-001-01.
4. Drymon JM, ed. Contributing authors **Jargowsky MB**, Jefferson AE, Seubert EA. 2020. FISHERS: Fishermen Invested in Science, Healthy Ecosystems and Sustainability. Mississippi State University Extension publication and Mississippi-

- Alabama Sea Grant Consortium publication. MASGP-20-053.
5. Cowan CJ, Jefferson AE, **Jargowsky MB**, Drymon JM. 2020. Are You Older Than a Fish? Maximum Ages of Gulf of Mexico Bony Fishes. Mississippi State University Extension publication 3547 and Mississippi-Alabama Sea Grant Consortium publication MASGP-20-045.
  6. **Jargowsky MB**. 2020. Tracking the silver kings of the northern Gulf. Mississippi-Alabama Sea Grant Consortium Staff Blog.
  7. Jefferson AE, **Jargowsky MB**, Drymon JM. 2020. Gulf Coast Fisherman Newsletter, Issue 20. Mississippi-Alabama Sea Grant Consortium publication MASGP-20-001-04.
  8. **Jargowsky MB**, Jefferson AE, Drymon JM. 2020. Gulf Coast Fisherman Newsletter, Issue 19. Mississippi-Alabama Sea Grant Consortium publication MASGP-20-001-03.
  9. **Jargowsky MB**, Jefferson AE, Seubert EA, Drymon JM. 2019. Gulf Coast Fisherman Newsletter, Issue 16. Mississippi-Alabama Sea Grant Consortium publication MASGP-19-001-04.
  10. **Jargowsky MB**. Tracking the silver kings of the northern Gulf. 2019. Mississippi State University Extension Outdoors article.
  11. Seubert EA, Jefferson AE, **Jargowsky MB**, Drymon JM. 2019. Gulf Coast Fisherman Newsletter, Issue 15. Mississippi-Alabama Sea Grant Consortium publication MASGP-19-001-03.
  12. Jefferson AE, Seubert EA, **Jargowsky MB**, Drymon JM. 2019. Gulf Coast Fisherman Newsletter, Issue 14. Mississippi-Alabama Sea Grant Consortium publication MASGP-19-001-02.
  13. Jefferson AE, Seubert EA, **Jargowsky MB**, Drymon JM. 2018. Gulf Coast Fisherman Newsletter, Issue 13. Mississippi-Alabama Sea Grant Consortium publication MASGP-18-001-10.
  14. **Jargowsky MB**, Drymon JM. 2018. Gulf Coast Fisherman Newsletter, Issue 10. Mississippi-Alabama Sea Grant Consortium publication MASGP-18-001-10.
  15. **Jargowsky MB**, Seubert EA, Drymon JM. Gulf Coast Fisherman Newsletter, Issue 9. Mississippi-Alabama Sea Grant Consortium publication MASGP-18-001-09.

## **Outreach Experience**

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1. **Shark Week at Gulf State Park Pier**, Gulf Shore, AL, 7/13/21 - 7/15/21
2. **Mississippi Commercial Fisheries United Annual Dinner**, Virtual, 12/27/20
3. **Louisiana Fisheries Forward Summit**, New Orleans, LA, 3/11/20
4. **Biloxi Boat Show**, Biloxi, MS, 2/8/20
5. **My Two Boots**, Biloxi, MS, 11/18/19
6. **Coastal Cleanup**, Biloxi, MS, 11/16/19
7. **Coastal MS Master Naturalist Program**, Dauphin Island, AL, 9/21/19
8. **Shark Week at Gulf State Park Pier**, Gulf Shore, AL, 7/31/19, 8/1/19
9. **St. Martin Public Library Program**, St. Martins, MS, 7/25/19
10. **Biloxi Public Schools Summer STEM Academy**, Biloxi, MS, 6/24/19 - 6/26/19
11. **High School Bottom Longline Field Day**, Dauphin Island, AL, 6/19/19
12. **Student Naturalist**, Biloxi, MS, 6/14/19
13. **Harrison County Sheriff's Camp**, Bay St. Louis, MS, 6/11/19
14. **Fins, fish, and fisheries workshop**, Dauphin Island, AL, 6/10/19
15. **Casting for Conservation**, Bay St. Louis, MS, 4/27/19
16. **Casting for Conservation**, Diamondhead, MS, 3/30/19
17. **Nurse Shark Welcome Party**, Dauphin Island, AL, 3/16/19
18. **Biloxi Boat Show**, Biloxi, MS, 2/23/19, 2/24/19
19. **Mobile Boat Show**, Mobile, AL, 2/9/19
20. **Biloxi Public Schools**, Dauphin Island, AL, 12/3/18
21. **Discovering Alabama**, Dauphin Island, AL, 11/7/18
22. **My Two Boots**, Pascagoula, MS, 10/30/18
23. **Coastal Cleanup**, Gulfport, MS, 10/20/18
24. **Alabama Coastal Birdfest**, Fairhope, AL, 10/6/18
25. **Artistic Roots**, Dauphin Island, AL, 10/2/18
26. **Boardwalk Talk**, Dauphin Island, AL, 7/5/17

## **Professional Service & Societies**

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**Manuscript Reviewer for:** *Fishery Bulletin*

**Bays and Bayous Symposium Moderator**  
2020

**American Fisheries Society**  
2019 – Present

**Mississippi Chapter of the American Fisheries Society**  
2019 – Present

## **Computer Skills**

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- Microsoft Office (Word, Excel, PowerPoint)
- Mapping Software: QGIS, ArcGIS
- Statistical Software: R, PRIMER-e
- Social Media: Facebook (Page Editor)

## **Certifications**

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- Department of the Interior: Motorboat Operator Certification Course, May 2016
- American Heart Association Heartsaver First Aid CPR AED Program

## **References**

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