

# Jamie Clark (she/her)

## EDUCATION

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<b>The University of North Carolina, Wilmington</b> <i>Doctor of Philosophy, Integrative and Comparative Marine Biology</i>	<b>2023 - exp. 2028</b> GPA: 4.0
<b>The University of South Carolina, Columbia</b> <i>Science, Marine Science, emphasis in Bio. Oceanography</i>	<b>2017 - 2018 Master of</b> GPA: 3.83
<b>The University of South Carolina, Columbia</b> <i>Bachelor of Science, Marine Science emphasis in Biology</i> Magna cum laude, Graduation with Research Distinction	<b>2013 - 2017</b> GPA: 3.77

## PROFESSIONAL EXPERIENCE

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<b>Dr. Matthew Ramirez's Lab at the University of North Carolina, Wilmington</b> <u>Ph.D. Researcher &amp; Biology and Marine Biology Teaching Assistant</u>	<i>Aug. 2023 - present</i>
<ul style="list-style-type: none"><li>• Collaborating with NOAA Fisheries (Dr. Larisa Avens, SEFSC, and Dr. Cali Turner, SWFSC) and various aquaria/rehabilitation centers (e.g., NC Aquariums, Disney- The Seas, Clearwater, Karen Beasley, etc.) to calibrate and validate novel age estimation tools for estimating age of live sea turtles via Near InfraRed Spectroscopy (NIRS – light scans) and DNA methylation (DNAm – tissue samples)</li><li>• Mentoring three undergraduate students and one early-college student within the Ramirez Lab</li><li>• Teaching an inquiry-based, writing-intensive laboratory section of Animal Physiology (BIO345) / sem.</li><li>• Reviewer and mentor (Graduate Assistant) for UNCW CSURF – aiding undergraduate students in the application to the NOAA Hollings Scholarship Program</li></ul>	
<b>CIMAS, University of Miami at the NOAA Fisheries Beaufort, NC Lab</b> <u>Senior Research Associate II, Fish Biology and Life History Group, FATES</u>	<i>Jan. 2020 – Aug. 2023</i>
<ul style="list-style-type: none"><li>• Accomplished in fish age estimation using histologically processed otoliths of Red Porgy, Scamp, Gray Snapper, Vermilion Snapper, and White Grunt for SEDAR stock assessments</li><li>• Assembled and contributed age data for the Gulf of Mexico Gray Snapper Assessment (SEDAR75)</li><li>• Led research in applying Fourier Transform Near-InfraRed Spectroscopy (FT-NIRS) age estimation of genetically distinct populations of White Grunt in the U.S. South Atlantic (manuscript in preparation).</li><li>• Skilled in R/V marine fisheries fieldwork: onboard scientist during four NMFS Southeast Fishery Independent Surveys (2021, 2022 [2], and 2024)</li></ul>	
<b>Riverside Technology, Inc. at the NOAA Fisheries Beaufort, NC Lab</b> <u>Fisheries Biologist II, Sea Turtle Team</u>	<i>July 2018 – Dec. 2019</i>
<ul style="list-style-type: none"><li>• Accomplished in histological processing and age estimation of sea turtle humerus bones via skeletochronology for age structure analysis, contributing to the recovery and conservation of protected species [co-authored two publications thus far, with one additional in preparation: Ei, Lk, and Cc].</li><li>• Instrumental in fieldwork for 1) the evaluation of the effectiveness of visual and acoustic deterrent devices on sea turtle bycatch in the pound net industry, and 2) the maintenance and restoration of an acoustic receiver array in Core Sound, NC, to assess habitat usage of radio-tagged turtles.</li><li>• Highly skilled in dissection and necropsy techniques: dissected about 1,000 extremely decomposed sea turtle flippers over 6 months after Hurricane Florence devastated a walk-in freezer.<ul style="list-style-type: none"><li>○ Received the 2019 SEFSC Team Member of the Year award for this work.</li></ul></li></ul>	
<b>Dr. Daniel Speiser's Lab at the University of South Carolina</b> <u>Accelerated Master's Researcher &amp; Marine Science Teaching Assistant</u>	<i>Aug. 2015 – July 2018</i>
<ul style="list-style-type: none"><li>• <b>Thesis title:</b> Restoration of visual performance and opsin expression within the retina during eye regeneration in the Florida fighting conch (<i>Strombus alatus</i>)</li><li>• Supervised maintenance and husbandry for two 50-gallon recirculating aquaculture systems with a variety of marine invertebrates, including chitons, conch, scallops, urchins, etc.</li><li>• Taught Marine Science 101 and 102 labs and assisted in teaching and leading MSCI460 (Field Research for undergraduates) at the Belle W Baruch Marine Laboratory.</li></ul>	

## PUBLICATIONS

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- **Clark, J.M.**, Potts, J.C., Barnett, B.K., Garner, S.B., and Ostrowski, A.D. (2025). Applying FT-NIRS Predictive Ageing to Different Genetic Stocks of White Grunt (*Haemulon plumierii*) Within the U.S. South Atlantic. [Manuscript in prep.]
- **Clark, J.M.**, Ostrowski, A.D., Potts, J.C., Barnett, B.K., Garner, S.B., and Rogers, W.D. Applying FT-NIRS Predictive Ageing to Different Genetic Stocks of White Grunt (*Haemulon plumierii*) Within the U.S. South Atlantic. Matta, M. E., and Helsler, T. E. (editors). 2024. In Proceedings of the Fourth Research Workshop on the Rapid Estimation of Fish Age Using Fourier Transform Near Infrared Spectroscopy. AFSC Processed Rep. 2024-01, 524 p. Alaska Fish. Sci. Cent., NOAA, Natl. Mar. Fish. Serv., 7600 Sand Point Way NE, Seattle WA 98115.
- Ramirez, M.D., Avens, L., Meylan, A., Shaver, D., **Clark, J.M.**, et al. (2022). Dietary plasticity linked to divergent growth trajectories in a critically endangered sea turtle. *Frontiers in Ecology and Evolution*, 11, 1050582.
- Avens, L., Ramirez, M.D., Goshe, L., **Clark, J.M.**, Meylan, A., et al. (2021). Hawksbill sea turtle life stage durations, somatic growth patterns, and age at maturation. *Endangered species research*, 45, 127-145.  
**Reviewer for:** Herpetological Conservation and Biology

## FUNDING, AWARDS, SCHOLARSHIPS

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- UNCW Bio and Marine Bio Scholarship *recipient* 2024 -- \$1,000
- UNCW Judith C. Bryan, Holden Beach Turtle Watch Fellowship *recipient* 2024 -- \$2,500
- Most Valuable Lion *recipient* – Beaufort, NC Lions Club (Pres. during COVID; created website) – June 2023
- NOAA's Southeast Fisheries Science Center *Team Member of the Year* – June 2019
- NOAA Ernest F. Hollings Undergraduate Scholarship *recipient* – 2015 - 2017

## DIVERSITY, EQUITY, AND INCLUSION INITIATIVES

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- June 2024 - present – *Graduate Student Representative* from the Biology Graduate Student Association to the UNCW BMB Department's Graduate Advisory Committee – Wilmington, NC
- Sept. 2023 - present – *Graduate Student Representative* on the SAND (Science, Access, iNclusion, and Diversity) Committee of UNCW's Biology and Marine Biology Department – Wilmington, NC
- July 2022 – Aug. 2023 – *Steering Committee Member* to the Early Career Diversity, Equity, and Inclusion Affinity Group of NOAA's Southeast Fishery Science Center – Beaufort, NC
- July 2021 – Aug. 2023 – *Founder and Leader* of the Beaufort Women's Collective (peer-to-peer mentorship group for 18 early-career women in Carteret County) – Beaufort, NC
- March 2020 (virtual) & 2023 (F2F) – *Activity Organizer and Leader* for GEST (Growing-Equity in Science and Technology) at Duke University's Marine Lab – Beaufort, NC

## OUTREACH AND SERVICE

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- Oct. 2024 – *UNCW CMS Open House* [~ 900 attendees] – led Ramirez Lab and SAND Committee tables
- Sept. 2024 – *Femme in STEM at the NC Aquarium, Fort Fisher* [800 attendees] – led table for Ramirez Lab
- July 2024 – *UNCW's Marine Quest OCEANS15* – organizer of a fish dissection/aging lesson with 20 HS juniors [dissection, otolith retrieval, and aging-error analysis] – Wilmington, NC
- June 2024 – *UNCW's Marine Quest OCEANS17 program* – Co-lead, w/ Dr. Ramirez, a 2-day sea turtle aging workshop with 20 HS seniors [necropsy, flensing, sectioning, staining, and aging] – Wilmington, NC
- May 2024 – *Girl Scout Troop 366* – delivered sea turtle talk for turtle patch [7<sup>th</sup> graders] – Kure Beach, NC
- Jan. 2024 to present – *UNCW's Marine Quest* – animal husbandry volunteer [1 hr/week] – Wilmington, NC
- Oct. 2023 – *Marine Mammal Stranding Program* – Ocean Fest volunteer [~2,000 attendees] – Surf City, NC
- Oct. 2023 – *UNCW Center for Marine Science Open House* [~ 750 attendees] – Wilmington, NC
- Aug. 2023 to present – *Marine Mammal Stranding Program* – Graduate Student Volun. – Wilmington, NC
- March 2022 – *NOAA Hollings Scholarship Prog.* – Volunteer Application Reviewer – Beaufort, NC
- Feb. 2022 – *National Ocean Sciences Bowl* [10 statewide teams] – Science Judge – Beaufort, NC
- Dec. 2018 to present – *Beaufort, NC Lions Club* – President, VP, Treasurer, Member – Beaufort, NC