

Matthew D. Ramirez, Ph.D.

Assistant Professor

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Education

- 2019 **Doctor of Philosophy** (Fisheries Science), Oregon State University, Department of Fisheries and Wildlife, Corvallis, Oregon. *Advisor: Dr. Selina Heppell.*
Dissertation Title: "It's in their bones: Ecological drivers of Kemp's ridley sea turtle (*Lepidochelys kempii*) somatic growth and population dynamics."
- 2015 **Master of Science** (Fisheries Science), Oregon State University, Department of Fisheries and Wildlife, Corvallis, Oregon. *Advisor: Dr. Selina Heppell.*
Thesis Title: "Sequential isotopic analysis to characterize ontogenetic shifts and growth dynamics of loggerhead sea turtles (*Caretta caretta*)."
- 2011 **Bachelor of Science** (Zoology), Auburn University, Department of Biological Sciences, Auburn, Alabama. *Advisor: Dr. Wendy Hood.*
Honors Thesis Title: "Food intake, mean retention time, and digestibility in Columbian ground squirrels (*Uroditellus columbianus*) during lactation."

Professional Experience

- 2023-present **Assistant Professor**, University of North Carolina Wilmington
- 2022 **Hess Postdoctoral Research Fellow**, University of Victoria (*Supervisor: Dr. Julia Baum*)
- 2020–2022 **NSF Postdoctoral Fellow**, University of Rhode Island Graduate School of Oceanography (*Supervisor: Dr. Kelton McMahon*)
- 2018–2019 **NOAA EPP LMRCSC Doctoral Fellow**, Oregon State University
- 2012–2017 **NSF Graduate Research Fellow**, Oregon State University
- 2012–2013 **NOAA EPP LMRCSC Master's Fellow**, Oregon State University
- 2012 **Conservation Associate**, Conservancy of Southwest Florida
- 2011–2012 **Research Technician**, Auburn University
- 2011 **Sea Turtle Intern**, Bald Head Island Conservancy
- 2008–2011 **Undergraduate Research Assistant**, Auburn University

Research Grants and Fellowships (Total = \$703,972 USD)

- 2023 UNCW Charles L. Cahill Grant for Faculty Scholarship: "Evaluating oxygen isotopes as a new tool to evaluate drivers of sea turtle somatic growth variation." *PI: MD Ramirez* (\$5,653 US)
- 2021 Dr. Margaret "Marmie" Perkins Hess Research Fellowship. *PI: MD Ramirez* (\$144,000 CAD over 2 years)

- 2020 American Philosophical Society Franklin Research Grant. *PI: MD Ramirez* (\$6,000 US)
- 2019 National Science Foundation Postdoctoral Fellowship in Biology. *PI: MD Ramirez* (\$172,500 over 2.5 years US)
- 2018 NOAA Living Marine Resources Cooperative Science Center: “Integration of habitat-specific growth variation into assessment models: a case study for the Kemp’s ridley sea turtle.” *PIs: MD Ramirez, SS Heppell, EA Babcock* (\$49,990 US)
- 2017 PADI Foundation: “Influence of diet, habitat use, and population density on Kemp’s ridley sea turtle somatic growth.” *PI: MD Ramirez* (\$8,000 US)
- 2015 National Marine Fisheries Service, Office of Protected Resources: “Atlantic Kemp’s ridley age, growth dynamics, habitat use, and trophic ecology, with comparison to the Gulf of Mexico.” *PIs: L Avens, H Haas. Co-PIs: SS Heppell, MD Ramirez (co-author)* (\$166,269 US)
- 2015 Ted Thorgaard Student Research Fund, OSU Department of Fisheries and Wildlife (\$500 US)
- 2013 NOAA Living Marine Resources Cooperative Science Center: “Analysis of Variability in foraging ecology and juvenile growth to improve an assessment model for loggerhead sea turtles.” *PI: SS Heppell. Lead Author: MD Ramirez* (\$15,983 US)
- 2012 NOAA Living Marine Resources Cooperative Science Center: “Analysis of Variability in foraging ecology and juvenile growth to improve an assessment model for loggerhead sea turtles.” *PI: SS Heppell. Lead Author: MD Ramirez* (\$38,637 US)
- 2012 National Science Foundation Graduate Research Fellowship. *PI: MD Ramirez* (\$121,500 over 3 years US)
- 2010 Auburn University-Cellular and Molecular Biosciences Undergraduate Summer Research Scholar. *PI: MD Ramirez* (\$3,000 US)
- 2010 Fund for Excellence Undergraduate Research Award, Auburn University. *PI: MD Ramirez* (\$740 US)

Peer-reviewed Publications (*undergraduate mentee)

11. **Ramirez, MD**, L Avens, AB Meylan, DJ Shaver, AR Stahl, PA Meylan, JM Clark, LN Howell, BA Stacy, WG Teas, KW McMahon. 2023. Dietary plasticity linked to divergent growth trajectories in a critically endangered sea turtle. *Frontiers in Ecology and Evolution* 11: 1050582. <https://doi.org/10.3389/fevo.2023.1050582>
10. **Ramirez, MD**, AC Besser, SD Newsome, and KW McMahon. 2021. Meta-analysis of primary producer amino acid $\delta^{15}\text{N}$ values and their influence on trophic position estimation. *Methods in Ecology and Evolution (Cover Paper)*. <https://doi.org/10.1111/2041-210X.13678>
9. Avens, L, **MD Ramirez**, LR Goshe, J Clark, A Meylan, D Shaver, and M Godfrey. 2021. Hawksbill sea turtle life stage durations, somatic growth patterns, and age at maturation. *Endangered Species Research* 45: 127–145. <https://doi.org/10.3354/esr01123>
8. **Ramirez, MD**, T Popovska*, and EA Babcock. 2021. Global synthesis of sea turtle von Bertalanffy growth parameters through Bayesian hierarchical modeling. *Marine Ecology Progress Series* 657:191–207. <https://doi.org/10.3354/meps13544>
7. Avens, L, **MD Ramirez**, AG Hall, ML Snover, H Haas, MH Godfrey, M Cook, and SS Heppell. 2021. Regional differences in Kemp’s ridley sea turtle growth and maturation trajectories. *Marine Ecology Progress Series* 654:143–161. <https://doi.org/10.3354/meps13507>
6. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, M Cook, HL Haas, and SS Heppell. 2020. Regional environmental drivers of Kemp’s ridley sea turtle somatic growth variation. *Marine Biology*. 167:146. <https://doi.org/10.1007/s00227-020-03754-2>

5. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, M Cook, and SS Heppell. 2020. Regional variation in Kemp's ridley sea turtle diet composition and its potential relationship with somatic growth. *Frontiers in Marine Science* 7:253. <https://doi.org/10.3389/fmars.2020.00253>
4. **Ramirez, MD**, JA Miller, E Parks*, L Avens, LR Goshe, JA Seminoff, ML Snover, and SS Heppell. 2019. Reconstructing sea turtle ontogenetic habitat shifts through trace element analysis of bone tissue. *Marine Ecology Progress Series* 608: 247–262. <https://doi.org/10.3354/meps12796>
3. **Ramirez, MD**, L Avens, JA Seminoff, LR Goshe, and SS Heppell. 2017. Growth dynamics of loggerhead sea turtles undergoing ontogenetic habitat shifts. *Oecologia* 183 (4): 1087–1099. <https://doi.org/10.1007/s00442-017-3832-5>
2. **Ramirez, MD**, L Avens, JA Seminoff, LR Goshe, and SS Heppell. 2015. Patterns of loggerhead turtle ontogenetic shifts revealed through isotopic analysis of annual skeletal growth increments. *Ecosphere* 6 (11): 1–17. <https://doi.org/10.1890/ES15-00255.1>
1. Turner Tomaszewicz, C, JA Seminoff, **MD Ramirez**, and CM Kurle. 2015. Effects of demineralization on the stable isotope analysis of bone samples. *Rapid Communications in Mass Spectrometry* 29 (20): 1879–1888. <https://doi.org/10.1002/rcm.7295>

Publications In Review or Final Preparation (*undergraduate mentee)

- a. Fuentes, MPB, E McMichael, CY Kot, I Silver-Gorges, BP Wallace4, BJ Godley, AML Brooks, SA Ceriani, AA Cortés-Gómez, TM Dawson, KL Dodge, M Flint, MP Jensen, LM Komoroske, S Kophamel, MD Lettrich, CA Long, SE Nelms, AR Patrício, NJ Robinson, JA Seminoff, M Ware, ER Whitman, D Chevallier, CE Clyde-Brockway, SA Korgaonkar, A Mancini, JM Fonseca, JR Monsinjon, I Neves-Ferreira, AA Ortega, SH Patel, JB Pfaller, **MD Ramirez**, C Raposo, CE Smith, FA Abreu-Grobois, GC Hays. *In Review*. Key issues in assessing threats to sea turtles: knowledge gaps and ways forward. *Endangered Species Research*.
- b. **Ramirez, MD**, KW McMahon, N Rooney, RW El-Sabaawi, JK Baum. *In review*. Resilient trophic pathways in carnivorous reef fishes across a major human disturbance gradient. *Nature Ecology and Evolution*

Awards and Academic Honors

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| 2022 | URI Chaplains Association Martin Luther King Jr. Peacemaker's Award. |
| 2018 | Briggs Scholarship in Biogeography, OSU Department of Fisheries and Wildlife. |
| 2018 | Travel Grant, OSU Graduate School and OSU Department of Fisheries and Wildlife. |
| 2018 | Travel Grant, 11th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies. |
| 2017 | Thomas G. Scott Achievement Award, Outstanding Ph.D. Student, OSU Department of Fisheries and Wildlife. |
| 2017 | Runner-up, Best Student Oral Presentation, Biology, 37th International Symposium on Sea Turtle Biology and Conservation. |
| 2017 | Travel Grant, OSU Graduate School and OSU Department of Fisheries and Wildlife. |
| 2017 | Oregon Lottery Graduate Scholarship, OSU Graduate School. |
| 2016 | Briggs Scholarship in Biogeography, OSU Department of Fisheries and Wildlife. |
| 2015 | Publication Grant, OSU Department of Fisheries and Wildlife. |
| 2014 | Best Student Oral Presentation, Healthy Oceans Section, NOAA EPP 7th Biennial Education and Science Forum. |

- 2014 Oregon Lottery Graduate Scholarship, OSU Graduate School.
- 2014 Chairman's Leadership Award, OSU Department of Fisheries and Wildlife.
- 2014 Thomas G. Scott Achievement Award, Outstanding M.S. Student, OSU Department of Fisheries and Wildlife.
- 2014 Savery Outstanding Master's Student Award, OSU College of Agricultural Sciences.
- 2014 Art of Leadership Conference Scholarship, OSU Graduate School.
- 2013 Henry Mastin Graduate Student Award, OSU Department of Fisheries and Wildlife.
- 2013 Travel Grant, Stable Isotopes in Biogeochemistry & Ecology Scholarship, University of Utah.

Conference Presentations (*undergraduate mentee)

36. **Ramirez, MD**, L Avens, AB Meylan, DJ Shaver, AR Stahl, PA Meylan, JM Clark, LN Howell, BA Stacy, WG Teas, and KW McMahan. 2023. Dietary plasticity linked to divergent growth trajectories in a critically endangered sea turtle. International Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia.
35. **Ramirez, MD**, L Avens, AB Meylan, DJ Shaver, AR Stahl, PA Meylan, JM Clark, LN Howell, BA Stacy, WG Teas, and KW McMahan. 2023. Dietary plasticity linked to divergent growth trajectories in a critically endangered sea turtle. Southeast Regional Sea Turtle Network Meeting, Orange Beach, AL.
34. McMahan, KW, **MD Ramirez**, AC Besser, MD McCarthy, and SD Newsome. 2022. Embracing variability in amino acid $\delta^{15}\text{N}$ fractionation: β and TDF variability in trophic position estimation. International Symposium on Isotope Physiology, Ecology, and Geochemistry, Hokkaido, Japan.
33. *Intemann-Milligan, J, **Ramirez, MD**, L Avens, MH Godfrey, SG Barco, and KW McMahan. 2022. Evaluating resource use patterns in relation to changing prey abundance in co-occurring sea turtle species using molecular isotope geochemistry. Southeast Regional Sea Turtle Network Meeting, Orange Beach, AL (*Cancelled due to COVID-19 pandemic*).
32. **Ramirez, MD**, L Avens, LR Goshe, JM Clark, AB Meylan, W Teas, DJ Shaver, MH Godfrey, L Howell, and KW McMahan. 2022. Molecular isotopes reveal divergent energy flow pathways in a hawksbill sea turtles resident in US waters. Southeast Regional Sea Turtle Network Meeting, Orange Beach, AL (*Cancelled due to COVID-19 pandemic*).
31. *Intemann-Milligan, J, **Ramirez, MD**, L Avens, MH Godfrey, SG Barco, and KW McMahan. 2022. Evaluating resource use patterns in relation to changing prey abundance in co-occurring sea turtle species using molecular isotope geochemistry. Ocean Sciences Meeting, Honolulu, HI.
30. **Ramirez, MD**, AC Besser, SD Newsome, and KW McMahan. 2022. Re-examining primary producer amino acid nitrogen isotope values and their influence on trophic position estimation in aquatic systems. Ocean Sciences Meeting, Honolulu, HI.
29. **Ramirez, MD**, L Avens, LR Goshe, JM Clark, AB Meylan, W Teas, DJ Shaver, MH Godfrey, L Howell, and KW McMahan. 2021. Molecular isotopes reveal divergent energy flow pathways in a critically endangered spongivorous turtle. American Fisheries Society Annual Meeting, Baltimore, MD.
28. **Ramirez, MD**, AC Besser, SD Newsome, and KW McMahan. 2021. Meta-analysis of primary producer amino acid $\delta^{15}\text{N}$ values and their influence on trophic position estimation. International Conference on the Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol 2021) (virtual).
27. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, M Cook, and SS Heppell. 2020. Regional variation in Kemp's ridley sea turtle diet composition and its potential relationship with somatic growth. International Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia (*Cancelled due to COVID-19 pandemic*).
26. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, M Cook, and SS Heppell. 2020. How many Kemp's ridleys go to the Atlantic? Identifying regional habitat use through lead isotope, trace element, and growth

- rate analyses of stranded turtle humeri. International Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia (*Cancelled due to COVID-19 pandemic*).
25. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, M Cook, HL Haas, and SS Heppell. 2020. Elucidating climate, density, and oil spill effects on Kemp's ridley sea turtle somatic growth rates. Ocean Sciences Meeting, San Diego, CA.
 24. *Nemyre, N, **MD Ramirez**, B Chasco, JNM Hart, SE Piacenza, MP Rincon-Diaz, M VanBemmel, and SS Heppell. Gap and meta-analysis of demographic parameters for the critically endangered hawksbill sea turtle. Research Advances in Fisheries, Wildlife, and Ecology Symposium, Corvallis, OR.
 23. *VanBemmel, M, **MD Ramirez**, B Chasco, A Kenney, JNM Hart, N Nemyre, SE Piacenza, MP Rincon-Diaz, and SS Heppell. 2019. A global synthesis of sea turtle life history data for demographic studies: a case study in the loggerhead sea turtle. Research Advances in Fisheries, Wildlife, and Ecology Symposium, Corvallis, OR.
 22. *Hart, JNM, **MD Ramirez**, B Chasco, A Kenney, N Nemyre, SE Piacenza, MP Rincon-Diaz, M VanBemmel, and SS Heppell. 2019. Identifying data needs for sea turtle demographic studies: a data gap analysis. International Symposium on Sea Turtle Biology and Conservation, Charleston, SC.
 21. *Popovska, T, E Babcock, and **MD Ramirez**. 2019. A meta-analysis of somatic growth in sea turtles. International Symposium on Sea Turtle Biology and Conservation, Charleston, SC.
 20. *VanBemmel, M, **MD Ramirez**, B Chasco, A Kenney, JNM Hart, N Nemyre, SE Piacenza, MP Rincon-Diaz, and SS Heppell. 2019. A global synthesis of sea turtle life history data for demographic studies: a case study in the loggerhead sea turtle. International Symposium on Sea Turtle Biology and Conservation, Charleston, SC.
 19. **Ramirez, MD**, L Avens, LR Goshe, ML Snover, and SS Heppell. 2019. Density-independent decline in Kemp's ridley somatic growth rates following the Deepwater horizon oil spill. International Symposium on Sea Turtle Biology and Conservation, Charleston, SC.
 18. **Ramirez, MD**, JA Miller, L Avens, JA Seminoff, E Parks, and SS Heppell. Heppell. 2018. Trace element ratios in sea turtle humerus bones track ontogenetic changes in resource use. Ocean Sciences Meeting, Portland, OR.
 17. **Ramirez, MD**, L Avens, and SS Heppell. 2018. Intrapopulation variation in resource use by Kemp's ridley sea turtles revealed through combined skeletal and stable isotope analyses. 11th International Conference on the Applications of Stable Isotope Techniques to Ecological Studies (IsoEcol 2018), Viña del Mar, Chile.
 16. **Ramirez, MD**, L Avens, JA Seminoff, L Goshe, and SS Heppell. 2017. Loggerhead sea turtle ontogenetic growth patterns deviate from theoretical predications. Ecological Society of America, Portland, OR.
 15. **Ramirez, MD**, JA Miller, L Avens, and SS Heppell. Heppell. 2017. Kemp's ridley sea turtle habitat use and diet variation revealed through combined trace element and stable isotope analyses. International Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV (*Runner-up, Best Student Biology Oral Presentation*).
 14. **Ramirez, MD**, L Avens, LR Goshe, and SS Heppell. 2017. Comparison of Kemp's ridley sea turtle somatic growth rates before and after the Deepwater Horizon oil spill. International Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV.
 13. *Davis, MB, **MD Ramirez**, B Chasco, SE Piacenza, MP Rincon-Diaz, and SS Heppell. 2017. Global analysis of sea turtle life history data for demographic studies. International Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV.
 12. **Ramirez, MD**, JA Miller, L Avens, and SS Heppell. 2017. Kemp's ridley sea turtle habitat use and diet variation revealed through combined trace element and stable isotope analyses. Research Advance in Fisheries, Wildlife and Ecology Symposium, Corvallis, OR.

11. **Ramirez, MD**, JA Miller, E Parks, L Avens, JA Seminoff, and SS Heppell. 2015. Laser ablation methods for reconstructing sea turtle life history. International Symposium on Sea Turtle Biology and Conservation, Dalaman, Muğla, Turkey.
10. **Ramirez, MD**, L Avens, JA Seminoff, and SS Heppell. 2015. Growth dynamics of Loggerhead sea turtles undergoing an ontogenetic habitat shift. International Symposium on Sea Turtle Biology and Conservation, Dalaman, Muğla, Turkey.
9. **Ramirez, MD**, E Parks, JA Miller, L Avens, LR Goshe, JA Seminoff, and SS Heppell. 2014. Methods for reconstructing sea turtle life history. NOAA EPP 7th Biennial Education and Science Forum, Princess Anne, MD (*Best Student Oral Presentation, Healthy Oceans Section*).
8. **Ramirez, MD**, L Avens, JA Seminoff, LR Goshe, and SS Heppell. 2014. Sea turtle ontogeny and growth: evidence of continuous ontogenetic shifts using skeletochronology and stable isotope analysis. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, TN.
7. **Ramirez, MD**, L Avens, JA Seminoff, and SS Heppell. 2014. Stable isotope analysis reveals multiple life-history pathways for juvenile loggerhead sea turtles in the Northwest Atlantic. International Symposium on Sea Turtle Biology and Conservation, New Orleans, LA.
6. Turner-Tomaszewicz, C., **Ramirez, M.D.**, Seminoff, J.A., Avens, L., Shakya, A., McCartha, M., Heppell, S.S., and C.K. Kurle. 2014. Investigation of alternate techniques for stable isotope analysis of sea turtle bone collagen. International Symposium on Sea Turtle Biology and Conservation, New Orleans, LA.
5. *Parks, E, **MD Ramirez**, L Avens, JA Seminoff, SS Heppell, and JA Miller. 2014. Analysis of trace element composition of loggerhead sea turtle bone via laser ablation. International Symposium on Sea Turtle Biology and Conservation, New Orleans, LA. (*Best Student Poster, Conservation Section*)
4. **Ramirez, MD**, L Avens, JA Seminoff, and SS Heppell. 2014. Stable isotope analysis reveals multiple life-history pathways for juvenile loggerhead sea turtles in the Northwest Atlantic. Research Advance in Fisheries, Wildlife and Ecology Symposium, Corvallis, OR.
3. **Ramirez, MD**, L Avens, JA Seminoff, and SS Heppell. 2013. Annual juvenile loggerhead sea turtle foraging ecology and habitat use as informed through isotopic analysis of bone tissue. Western Society of Naturalists, Oxnard, CA.
2. **Ramirez, MD**, AL Skibieli, and WR Hood. 2012. Lactating Columbian ground squirrels increase nutrient absorption without altering digesta retention. The Society for Integrative and Comparative Biology, Charleston, SC.
1. **Ramirez, MD**, AL Skibieli, and WR Hood. 2010. Food intake, mean retention time, and digestibility in Columbian ground squirrels (*Spermophilus columbianus*) during lactation. Auburn University-Cellular and Molecular Biosciences Undergraduate Summer Research Scholars Forum, Auburn, AL.

Invited Seminars

- 06/2023 **Bald Head Island Conservancy**, Conservation Connections, Sea Turtle Forensics: Unraveling the Mystery of Sea Turtle Growth through the Study of Stranded Turtles.
- 05/2023 **Universidad de San Carlos de Guatemala**, Sea Turtle Forensics: Integrating Stable Isotope and Stranded Turtle Analysis to Identify Drivers of Somatic Growth Variation.
- 02/2022 **Understanding and Quantifying Cumulative and Synergistic Stressors to Sea Turtles Workshop**, International Symposium on Sea Turtle Biology and Conservation, Perth, Australia (virtual).
- 2022 **San José State University**, Department of Biological Sciences, San José, CA, USA (virtual).
- 2021 **University of New Mexico**, Center for Stable Isotopes, Albuquerque, NM, USA (virtual).
- 2020 **University of Rhode Island**, Graduate School of Oceanography, Narragansett, RI, USA.
- 2019 **Oregon State University**, Graduate School: GRADx: Ideas in Action, Corvallis, OR, USA.

- 2015 **4th Workshop on Stable Isotope Techniques in Sea Turtle Research:** Lessons Learned and Future Steps, International Symposium on Sea Turtle Biology and Conservation, Dalaman, Muğla, Turkey.
- 2015 **New Techniques-Recent Developments for Young Scientists Workshop,** International Symposium on Sea Turtle Biology and Conservation, Dalaman, Muğla, Turkey.

Teaching Experience

- 2023 **Lecturer**, UNC Wilmington, BIO 466: Conservation Biology (71 students)
- 2021 **Guest Lecturer**, University of Rhode Island, URI 101: Topics in Marine Biology (35 students)
- 2020 **Guest Lecturer**, San José State University, BIOL 145: Biological Oceanography (20 students)
- 2020 **Guest Lecturer**, University of Rhode Island, URI 101: Topics in Marine Biology (40 students)
- 2019 **Instructor of Record**, Oregon State University, FW 325: Global Crises in Resource Ecology (online), overall teaching evaluation 5.7 out of 6.0 (14% response rate; 29 students).
- 2018 **Instructor of Record**, Oregon State University, FW 325: Global Crises in Resource Ecology (online), overall teaching evaluation 5.6 out of 6.0 (28% response rate; 32 students).
- 2018 **Instructor of Record**, Oregon State University, FW 325: Global Crises in Resource Ecology (online), overall teaching evaluation 5.8 out of 6.0 (34% response rate; 32 students).
- 2019 **Instructor of Record**, Oregon State University, FW 255: Field Sampling of Fish and Wildlife (online), overall teaching evaluation 5.5 out of 6.0 (38% response rate; 8 students).
- 2018 **Instructor of Record**, Oregon State University, FW 255: Field Sampling of Fish and Wildlife (online), overall teaching evaluation 5.4 out of 6.0 (42% response rate; 19 students).
- 2016 **Instructor of Record**, Oregon State University, FW 255: Field Sampling of Fish and Wildlife (online), overall teaching evaluation 5.3 out of 6.0 (57% response rate; 14 students).
- 2012 **Graduate Teaching Assistant**, Oregon State University, FW320: Introduction to Population Dynamics (35 students).

Mentorship Experience (*research project, °Online student, †co-authored manuscript)

Graduate Student Mentees (5)

- 2021–present Danielle Blackfield*, Professional MSc capstone project advisee, *OSU*
Project Title: Meta-analysis of sea turtle demographic rate data: identifying data gaps and needs for conservation and management of olive ridley sea turtles (*Lepidochelys olivacea*)
- 2020–2022 Catherine Nowakowski, PhD, *URI*
- 2020–2022 Josh Pi, PhD, *URI*
- 2020 Angela Stahl, MSc, *URI*
- 2020 Nina Santos, MSc, *URI*

Undergraduate Student Mentees (21)

- 06/2023 Deedra LaFon, post-bac, *UNCW*
- 06/2023 Cole Johnston, undergraduate research assistant & DIS student, *UNCW*
- 06/2023 Sierre Hershberger, Honor's Thesis student, *UNCW*
- 06/2023 Mary Brandle, DIS student, *UNCW*

- 06/2023 Ashley Dees, DIS student, UNCW
- 06/2023–08/2023 Justin Jenkins, undergraduate research assistant, University of Miami
- 2022 Nicole Masserlin, undergraduate research assistant, *URI*
- 2022 Jacqui Brabants, undergraduate volunteer, *URI*
- 2021–2022 Marlene Severino, undergraduate research assistant, *URI*
- 2021–2022 Lydia Cross*, undergraduate research assistant, *URI*
Project Title: Multi-tissue molecular isotope comparison in black sea bass.
- 2021–2022 Justine Intemann-Milligan*, SURFO REU student, *University of California, Berkeley*
Project Title: Resource use and partitioning in co-occurring sea turtle species
- 2021 Claudia Weitman, undergraduate volunteer, *URI*
- 2021 Lydia Walton*, undergraduate volunteer, *University of Victoria*
- 2020 Angel Reyes Delgado*, SURFO REU student, *URI*
Project Title: Examining Atlantic cod populations on Northeast Atlantic through morphometric analysis
- 2018–2020 Tamara Popovska*†, undergraduate thesis advisee, *University of Miami*
Thesis: Bayesian meta-analysis of sea turtle growth studies using the von Bertalanffy growth function
- 2018–2019 Julia Hart*, undergraduate research assistant, *OSU*
Project Title: Identifying data needs for sea turtle demographic studies: a data gap analysis.
- 2018–2019 Natasha Nemyre*°, undergraduate research assistant, *OSU*
Project Title: Gap and meta-analysis of demographic parameters for the critically endangered hawksbill sea turtle.
- 2016–2019 Matthew VanBemmel*, undergraduate research assistant, *OSU*
Project Title: A global synthesis of sea turtle life history data for demographic studies: a case study in the loggerhead sea turtle.
- 2018 Kiera McNeely, undergraduate volunteer, *OSU*
- 2018 Nathaniel Owen, undergraduate volunteer, *OSU*
- 2016–2018 Hanna Hagler, undergraduate volunteer, *OSU*
- 2017 Renee Doran, undergraduate volunteer, *OSU*
- 2015–2017 Meghan Davis*, undergraduate research assistant, *OSU*
Project Title: Global analysis of sea turtle life history data for demographic studies.
- 2015–2017 Ashley Yarbrough, undergraduate volunteer, *OSU*
- 2016–2017 Jayson Cordeiro, undergraduate volunteer (intensive internship), *OSU*
- 2015 Kayla Rutledge°, undergraduate volunteer, *OSU*
- 2014–2015 Breeze Kelley, undergraduate volunteer, *OSU*
- 2014–2015 Ashley Comerfield, undergraduate volunteer, *OSU*
- 2013–2014 Eric Parks*†, undergraduate research assistant, *Savannah State University*
Project Title: Analysis of trace element composition of loggerhead sea turtle bone via laser ablation.

Professional Service

- 2022 Panelist, URI Graduate Faculty Summit
- 2022 Co-organizer, Student Committee Workshop: How to Succeed in the Turtle World and Beyond, Annual Symposium on Sea Turtle Biology and Conservation.
- 2022 Student Evaluator, Ocean Sciences Meeting.
- 2022 Student Evaluator, Annual Symposium on Sea Turtle Biology and Conservation.
- 2019–2023 Student Committee, International Sea Turtle Society
- 2021 Lead Organizer, Sea Turtle Talks Virtual Event: a three-day, global, virtual event that included a Twitter conference, rehabilitation workshop, and COVID-19 panel discussion. <https://www.seaturtletalks.com>
- 2021 Co-organizer, Symposium: Advances in life history and environmental reconstruction using biogenic structures from marine and aquatic organisms, 151st American Fisheries Society Annual Meeting. Co-organizers: Jessica Lueders-Dumont, Karin Limburg, Ben Walther.
- 2021–2022 Postdoctoral Faculty Representative, URI Graduate School of Oceanography.
- 2019 Promotion and Tenure Reviewer, OSU Department of Fisheries and Wildlife.
- 2017 Invited Panelist, OSU Graduate School New Student Orientation.
- 2017 Student Volunteer and Session Moderator, Ecological Society of America Annual Meeting.
- 2016–2017 Seminar Committee, OSU Department of Fisheries and Wildlife.
- 2015–2019 Graduate Student Advisory Council, OSU Graduate School.
- 2014–2019 Program Coordinator, OSU Fisheries and Wildlife Mentorship Program: co-developed and lead program that pairs undergraduate mentees with graduate mentors to facilitate scientific and professional training. <https://tinyurl.com/osufwmentorship>.
- 2014–2015 Good of the Department Committee, OSU Department of Fisheries and Wildlife.
- 2014 Invited Panelist, Maximizing Your Graduate Student Experience, OSU Graduate School Orientation.
- 2014 Organizer, Undergraduate Research Assistant Recruitment Event, OSU Department of Fisheries and Wildlife: organized a forum for graduate students seeking undergraduate research assistants to advertise their opportunities.
- 2013 Invited Panelist, Graduate School Forum, OSU Department of Fisheries and Wildlife.
- 2013, 2015 Co-president, OSU Fisheries and Wildlife Graduate Student Association.
- 2013–2017 Volunteer, International Sea Turtle Society, Annual Symposium on Sea Turtle Biology and Conservation.
- 2012–2016 Organizing Committee, Research Advances in Fisheries, Wildlife, and Ecology Symposium: various leadership roles including conference program development, workshop organization, donation solicitation, symposium management, etc.

Manuscript reviewer for: Canadian Journal of Zoology, Chelonian Conservation and Biology, Ecological Modelling, Ecosphere, Endangered Species Research, Frontiers in Marine Science, iScience, Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, Marine Biology, Marine Ecology Progress Series, PLoS ONE, Rapid Communications in Mass Spectrometry, Royal Society Open Science

Public Outreach and Engagement (>250 K-12 students engaged in-person and online)

- 2021 GSO Science Saturday: day-long outreach event.

2021	Content Expert, GSO Ocean Classroom (Live!) S2E1: Food webs, from plankton to you!
2020–2022	Mentor, Letters to a Pre-Scientist Program (2 mentees)
2020–2021	Participant, Skype-a-Scientist (10 classrooms engaged)
2019	Advocates for Women in Science, Engineering, and Math Club, OSU Precollege Programs: co-developed wildlife tracking activities for middle and high school girls.
2017–2018	Discovering the Scientist Within, OSU Precollege Programs: co-developed activities to introduce middle school girls to science and careers in fisheries and wildlife.
2015–2019	Wild About Wildlife Summer Camp, STEM Academy, OSU Precollege Programs: co-coordinator and activity developer for a weeklong summer camp designed to engage and teach middle students about fisheries, wildlife, ecology, and conservation using lab and field-based activities. Participated annually. Lead coordinator 2016–2019.
2014–2021	National Ocean Science Bowl (Salmon Bowl, Quahog Bowl): volunteer game official for a regional high school ocean science competition. 2014, 2015, 2017, 2021.
2013	Guest Speaker, Inspiration Dissemination—KBVR 88.7FM: discussed my past research experiences, graduate research, and current issues in sea turtle conservation on the OSU student-run radio station.

Contribution to Diversity, Equity, and Inclusion

2021–2022	Member, Justice, Equity, Diversity, and Inclusion (JEDI) Committee, URI Graduate School of Oceanography (2022: co-chair)
2021	Participant, Fluid and Non-binary Identities Workshop, University of Rhode Island, Gender and Sexuality Center. Instructor: Dr. Annie Russell
2020	Participant, LGBTQA+ Safe Zone Workshop, University of Rhode Island, Gender and Sexuality Center. Instructor: Dr. Annie Russell
2020	Invited Panelist, URI Society for Women in Marine Science Symposium.
2020–present	Scholarship Evaluation Team, National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP).
2020–2021	Organizer, LGBTQA+ Safe Zone Workshop, URI Bay Campus (x2).
2013–present	Mentor, 21 students with backgrounds historically excluded in STEM.

Relevant Research, Technical, and Professional Training

2021	NextProf Science Future Faculty Workshop, University of Michigan, Ann Arbor, Michigan
2019	Beyond the Brochure: Creating a Meaningful Education Component to Help Secure Your Research Grant, Charleston, South Carolina, USA (1/2 day workshop). Instructors: Rebecca Mott, Kendra Cope
2018	Introduction to Bayesian Statistics for Stable Isotope Ecologists, Viña del Mar, Chile (1 day workshop). Instructors: Andrew Jackson and Claudio Quezada-Romegiallis
2016	R/V Oceanus central Pacific: zooplankton and nutrient sampling (5 days)
2016	Getting the Job: Preparing to Answer the “Diversity Question,” Corvallis, OR (half day workshop). Instructors: Dana Sanchez and Tim Stover.
2013	Stable Isotopes in Biogeochemistry and Ecology (IsoCamp), Salt Lake City, UT (2 week course). Instructors: Jim Ehleringer, Thure Cerling, and Dave Bowling.
2013	Design and Analysis of Sea Turtle Tagging Studies (using Program MARK), Orlando, FL (4 day workshop). Instructors: Bill Kendall and Evan Cooch.

Professional Memberships

American Association for the Advancement of Science

Association of Limnology and Oceanography

International Sea Turtle Society

National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)

Current as of July 2023