

Kelton Wells McMahon, Ph.D.
Associate Professor

Graduate School of Oceanography
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Education

- 2011 **Ph.D. (Biological Oceanography)** Massachusetts Institute of Technology-Woods Hole Oceanographic Institution Joint Program in Oceanography
Dissertation Title: “Functional connectivity of coral reef fishes in a tropical seascape assessed by compound-specific stable isotope analyses.” *Advisor: Dr. Simon Thorrold (Biological Oceanography)*
- 2005 **B.Sc. (Biology)** Bates College, Summa Cum Laude
Honors Thesis Title: “The impact of a changing food supply on Arctic benthos: digestibility of ice algae and phytoplankton” *Advisors: Dr. William Ambrose Jr. (Biology) and Dr. Beverly Johnson (Geology)*

Professional Appointments

- 2022 – present **Associate Professor:** Graduate School of Oceanography, University of Rhode Island, Narragansett, RI USA
- 2017 – 2022 **Assistant Professor:** Graduate School of Oceanography, University of Rhode Island, Narragansett, RI USA
- 2017 – present **Senior Fellow:** Coastal Institute, University of Rhode Island, Narragansett, RI USA
- 2015 – 2017 **Assistant Research Faculty:** Institute of Marine Science, University of California, Santa Cruz, Santa Cruz, CA USA
- 2014 – 2017 **Faculty Lecturer:** Ocean Sciences Department, University of California, Santa Cruz, Santa Cruz, CA USA
- 2013 - 2015 **Postdoctoral Scholar:** Ocean Sciences Department, University of California, Santa Cruz, Santa Cruz, CA USA
Supervisors: Dr. Mathew McCarthy and Dr. Thomas Guilderson
- 2012 - 2017 **Guest Investigator:** Biology Department, Woods Hole Oceanographic Institution, Woods Hole, MA, USA
- 2011 - 2012 **Postdoctoral Fellow:** Red Sea Research Center, King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia
Supervisors: Dr. Michael Berumen (KAUST)

Publications ([#]student author, ^{*}postdoctoral author)

37. [#]Stahl A, Rynearson T, **McMahon KW**. (2023) Amino acid carbon isotope fingerprints are unique among eukaryotic microalgal taxonomic groups. *Limnology and Oceanography*. DOI: doi.org/10.1002/lno.12350

36. *Ramirez MD, Avens L, Meylan AB, Shaver DJ, #Stahl AR, Meylan PA, Clark JM, Howell LN, Stacy BA, Teas WG, **McMahon KW** (2023) Dietary plasticity linked to divergent growth trajectories in a critically endangered sea turtle. *Frontiers in Ecology and Evolution* 11:1050582
35. Robinson RS, Smart SM, *Cybulski JD, **McMahon KW**, #Marcks B, #Nowakowski C (2023) Insights from fossil-bound nitrogen isotopes in diatoms, foraminifera, and corals. *Annual Review of Marine Science* 15:407–30
34. #Glynn, D. S., **McMahon, K. W.**, Sherwood, O. A., Guilderson, T. P., & McCarthy, M. D. (2022). Investigating preservation of stable isotope ratios in subfossil deep-sea proteinaceous coral skeletons as paleo-recorders of biogeochemical information over multimillennial timescales. *Geochimica et Cosmochimica Acta* 338:264-277.
33. #Kristan AK, Maiti K, **McMahon KW**, Dance MA, Polito MJ (2022) Biological and geochemical proxies in sediment cores reveal shifts in marine predator population dynamics relative to historic anthropogenic exploitation and recent climate change at South Georgia Island. *Polar Biology* 45:1379-1389
32. *Ramirez M, #Besser A, Newsome SD, **McMahon KW** (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* 12:1750-1767 (Cover of Issue 10)
31. **McMahon KW**, Ambrose Jr. WG, Reynolds MJ, Johnson BJ, Whiting A, Clough LM (2021) Arctic lagoon and nearshore food webs: Relative contributions of terrestrial organic matter, phytoplankton, and phytobenthos vary with consumer foraging dynamics. *Estuarine, Coastal and Shelf Science* 257:107388.
30. **McMahon KW**, #Michelson CI, Hart T, McCarthy MD, Patterson WP, Polito MJ (2019) Divergent trophic responses of sympatric penguin species to historic anthropogenic exploitation and recent climate change. *Proceedings of the National Academy of Sciences* 116:25721-25727 (Cover of Issue 51)
29. #MacDonald C, Bridge TC, **McMahon KW**, Jones GP (2019) Alternative dietary strategies and altered carbon pathways facilitate broad depth ranges in coral-obligate reef fishes. *Functional Ecology* 33:1962-1972.
28. #Glynn DS, **McMahon KW**, Guilderson TP, McCarthy MD (2019) Major shifts in nutrient and phytoplankton dynamics in the North Pacific Subtropical Gyre over the last 5000 years revealed by high-resolution proteinaceous deep-sea coral $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ records. *Earth and Planetary Science Letters* 515:145-153
27. #Brault EK, Koch PL, Costa DP, McCarthy MD, Huckstadt LA, Goetz K, **McMahon KW**, Goeble ME, Karlsson O, Teilmann J, Harkonen T, Harding K (2019) Trophic position and foraging ecology of Ross, Weddell, and Crabeater seals revealed by compound-specific isotope analysis. *Marine Ecology Progress Series* 611: 1-18 (Feature article)
26. Hobson KA, Wassenaar L, Bowen G, Courtiol A, Trueman CN, Voight C, West J, **McMahon KW**, Newsome S (2019). Outlook for using stable isotopes in animal migration studies. In: *Tracking Animal Migration with Stable Isotopes 2nd Edition* (eds. Hobson KA, Wassenaar L) Elsevier, Burlington MA
25. **McMahon KW**, Newsome S (2019). Amino acid isotope analysis: The next frontier in studies of animal migration and foraging ecology. In: *Tracking Animal Migration with Stable Isotopes 2nd Edition* (eds. Hobson KA, Wassenaar L) Elsevier, Burlington MA

24. Williams B, **McMahon KW**, #Barnes S, #Parks D, #Kim E, #Srebotnjak T, Etnoyer P (2019) Impact of skeletal heterogeneity and treatment method on interpretation of environmental variability from proteinaceous skeletons of deep-sea gorgonian octocorals. *Chemical Geology* **526**:101-109
23. Whiteman JP, Kim SL, **McMahon KW**, Koch PL, Newsome SD (2018) Amino acid isotope discrimination factors for a carnivore: physiological insights from leopard sharks and their diet. *Oecologia* **188**:977–989
22. #Brault EK, Koch PL, **McMahon KW**, #Broach K, #Rosenfield AP, #Sauthoff W, Arrigo KR, Loeb V, Smith W (2018) Carbon and nitrogen isoscapes in Western Antarctica reflect oceanographic transitions. *Marine Ecology Progress Series* **593**:29-45.
21. **McMahon KW**, Williams B, Guilderson TP, #Glynn DS, McCarthy MD (2018) Calibrating amino acid $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ offsets between polyp and protein skeleton to develop proteinaceous deep-sea corals as paleoceanographic archives. *Geochimica et Cosmochimica Acta* **220**: 261-275
20. Ohkouchi N, Chikaraishi Y, Close HG, Fry B, Larsen T, Madigan DJ, McCarthy MD, **McMahon KW**, Nagata T, Naito YI, Ogawa NO, Popp BN, Steffan S, Takano Y, Tayasu I, Wyatt ASJ, Yamaguchi YT, Yokoyama Y (2017) Advances in the application of amino acid nitrogen isotopic analysis in ecological and biogeochemical studies. *Organic Geochemistry* **113**:150-174 (authors in alphabetical order after first)
19. **McMahon KW**, McCarthy MD (2016) Embracing variability in amino acid $\delta^{15}\text{N}$ fractionation: Mechanisms, implications, and applications for trophic ecology. *Ecosphere* **7**:e01511 (Special issue on Biomarkers in Trophic Ecology)
18. **McMahon KW**, Thorrold SR, Houghton LA, Berumen ML (2016) Tracing carbon flow through coral reef food webs using a compound-specific carbon isotope approach. *Oecologia* **180**:809-821 (Cover of Issue 3)
17. **McMahon KW**, Guilderson TP, Sherwood OA, Larsen T, McCarthy MD (2015) Millennial-scale plankton regime shifts in the subtropical North Pacific Ocean. *Science* **350**:1530-1533
16. **McMahon KW**, Elsdon T, Thorrold SR, McCarthy M (2015). Trophic discrimination of nitrogen stable isotopes in amino acids varies with diet quality in a marine fish. *Limnology and Oceanography* **60**:1076-1087
15. **McMahon KW**, Polito M, Abel S, McCarthy MD, Thorrold SR (2015) Carbon and nitrogen isotope fractionation of amino acids in an avian marine predator, the gentoo penguin (*Pygoscelis papua*). *Ecology and Evolution* **5**:1278-1290
14. #Schiff JT, Batista F, Sherwood OA, Guilderson TP, Hill TM, Ravelo AC, †**McMahon KW**, McCarthy MD (2014) Compound specific amino acid $\delta^{13}\text{C}$ patterns in a deep-sea proteinaceous coral: implications for reconstructing detailed $\delta^{13}\text{C}$ records of exported primary production. *Marine Chemistry* **166**:82-91
13. †**McMahon KW**, #Hamady L, Thorrold SR (2013) Ocean ecogeochemistry – A review. *Oceanography and Marine Biology: An Annual Review* **51**:327-374
12. †**McMahon KW**, #Hamady L, Thorrold SR (2013) A review of ecogeochemistry approaches to estimating movements of marine animals. *Limnology and Oceanography* **58**:697-714
11. †**McMahon KW**, Berumen ML, Thorrold SR (2012) Linking habitat mosaics and connectivity in a coral reef seascape. *Proceedings of the National Academy of Science* **109**:15372-15376

10. #**McMahon KW**, Berumen ML, Mateo I, Elsdon TS, Thorrold SR (2011) Carbon isotopes in otolith amino acids identify residency of juvenile snapper (Family: Lutjanidae) in coastal nurseries. *Coral Reefs* **30**:1135-1145 (2011 Best Paper Award finalist)
9. #**McMahon KW**, Fogel ML, Johnson BJ, Houghton LA, Thorrold SR (2011) A new method to reconstruct fish diet and movement patterns from $\delta^{13}\text{C}$ values in otolith amino acids. *Canadian Journal of Fisheries and Aquatic Sciences* **68**:1330-1340
8. #**McMahon KW**, Fogel ML, Elsdon T, Thorrold SR (2010) Carbon isotope fractionation of amino acids in fish muscle reflects biosynthesis and isotopic routing from dietary protein. *Journal of Animal Ecology* **79**:1132-1141
7. Elsdon T, Ayvazian S, #**McMahon KW**, Thorrold SR (2010) Experimental evaluation of stable isotope fractionation in fish muscle and otoliths. *Marine Ecology Progress Series* **408**:195-205
6. Graham BS, Koch PL, Newsome SD, #**McMahon KW**, and Aurioles D (2010) Using isoscapes to trace the movements and foraging behavior of top predators in oceanic ecosystems. In *Isoscapes: Understanding Movement, Pattern and Process on Earth Through Isotope Mapping* (eds. West J, Bowen GJ, Dawson TE, Tu KP). pp. 299-318, Springer, New York
5. Skomal GB, Zeeman SI, Chisholm JH, Summers EL, Walsh HJ, #**McMahon KW**, Thorrold SR. (2009) Mesopelagic trans-equatorial migrations by basking sharks in the western Atlantic Ocean. *Current Biology* **19**:1019-1022 (Cover of Issue 12)
4. Carroll M, Johnson B, Henkes G, #**McMahon KW**, Voronkov A, Ambrose W, Denisenko S. (2009). Bivalves as indicators of environmental variation and potential anthropogenic impacts in the southern Barents Sea. *Marine Pollution Bulletin* **59**:193-206
3. Ambrose WG, Carroll ML, Greenacre M, Thorrold SR, #**McMahon KW**. (2006) Variation in bivalve growth in a Norwegian high-Arctic fjord: Evidence for local- and large-scale climatic forcing. *Global Change Biology* **12**:1595-1607
2. #**McMahon KW**, Ambrose WG, Johnson BJ, Sun M-Y, Lopez GR, Clough LM, Carroll ML (2006) Benthic community response to ice algae and phytoplankton in Ny Ålesund, Svalbard. *Marine Ecology Progress Series* **310**:1-14 (Issue's feature article)
1. #**McMahon KW**, Johnson BJ, Ambrose WG. (2005). Diet and movement of the killifish, *Fundulus heteroclitus*, in a Maine salt marsh assessed using gut contents and stable isotope analyses. *Estuaries* **28**:966-973

Research Grants and Fellowships

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- 2023 The Nature Conservancy (Lead PI, \$11,731)
 - 2022 URI-GSO Philanthropic Donner Funds (Lead PI, \$40,000)
 - 2022 URI-GSO Philanthropic Donner Funds (Lead PI, \$80,000)
 - 2022 Rhode Island Endeavor Program: Spring 2023 nine-day research cruise (Lead PI, Chief Scientist)
 - 2021 Rhode Island Research Alliance: Science and Technology Advisory Council (Lead PI, \$79,948)
 - 2021 URI-GSO Philanthropic Donner Funds (Lead PI, \$13,500)
 - 2021 National Science Foundation – Biological Oceanography (Lead PI, \$739,133)
 - 2020 NOAA Climate Variability and Predictability (Co-PI, \$568,182)



- 2020 Fisheries and Oceans Canada (DFO) Atlantic Salmon Research Joint Venture (Co-PI, \$20,968)
2020 The Nature Conservancy (Lead PI, \$11,180)
2019 Rhode Island Research Alliance: Science and Technology Advisory Council (Co-PI, \$79,891)
2019 NSF Major Research Instrumentation (Co-PI, \$390,679)
2019 RI SeaGrant (Co-PI, \$292,830)
2018 URI Council for Research: Proposal Development Grant (Lead PI, \$13,558)
2018 Rhode Island Research Alliance: Science and Technology Advisory Council (Lead PI, \$76,224)
2016 Instituto Antartico Chileno: XXI National Project Competition Antarctic Scientific and Technological Research (Co-PI, \$57,000)
2015 Ocean Science and Technology Packard Endowment Research Grant (Co-PI, \$19,817)
2015 National Science Foundation: PLR Antarctic Organisms & Ecosystems (Lead PI \$399,273)
2012 King Abdullah University of Science and Technology Postdoctoral Fellowship research grant (Lead PI \$25,000)
2008 International Society for Reef Studies/Ocean Conservancy Coral Reef Research Fellowship (Lead PI, \$14,546)
2008 Ocean Life Institute Student Research Grant (Lead PI, \$2,340)
2008 Isoscapes Conference Travel Grant (Lead PI, \$400)
2006-9 National Science Foundation Graduate Research Fellowship (Lead PI, \$121,500)
2005-6 Ocean Life Fellowship (Lead PI, \$28,446)
2005 Howard Hughes Travel Grant (Lead PI, \$500)
2004-5 Howard Hughes Summer Fellowship (Lead PI, \$3,000)
2004 Bates College Student Research Grant (Lead PI, \$3,000)
2004 Howard Hughes Student-Faculty Research Grant (Lead PI, \$12,000)
2004 Howard Hughes Travel Grant (Lead PI, \$500)
2003 Bates College Student Research Grant (Lead PI, \$3,000)

Academic Honors and Awards

- 2011 Coral Reefs Volume 30 Best Paper Award finalist
2009 Best Student Paper Award at the 4th International Otolith Symposium
2009 Sally Richardson Best Student Paper Award at the 33rd Annual Larval Fish Conference
2005 Summa Cum Laude at Bates College
2005 Honors Distinction in Biology at Bates College
2005 Phi Beta Kappa Honor Society
2001-5 Dean's Honors List at Bates College (8 consecutive semesters)

Teaching Experience

- 2023 **Instructor**, University of Rhode Island, OCG550 Environmental Isotope Geochemistry, (Spring: 9 graduate students)
2022 **Instructor**, University of Rhode Island, BES550 Advanced Ecology, BES core course (17 graduate students) Overall teaching evaluation: 4.6 out of 5 (65% response rate)



- 2022 **Instructor**, University of Rhode Island, OCG106G You Me, and Life in the Sea, (Fall 61 undergraduate students) Overall teaching evaluation: 4.9 out of 5 (86% response rate)
- 2022 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (22 students)
- 2021 **Instructor**, University of Rhode Island, BES550 Advanced Ecology, BES core course (12 graduate students) Overall teaching evaluation: 4.8 out of 5 (50% response rate)
- 2021 **Instructor**, University of Rhode Island, OCG106G You Me, and Life in the Sea, (Spring: 60 undergraduate students, Fall 61 undergraduate students) Overall teaching evaluation for Spring: 4.7 out of 5 (88% response rate), for Fall: 4.8 out of 5 (92% response rate)
- 2021 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course) (17 graduate students)
- 2020 **Instructor**, University of Rhode Island, OCG550 Environmental Isotope Geochemistry, graduate students (10 students) Overall teaching evaluation: 5.0 out of 5 (50% response rate)
- 2019 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (16 students)
- 2019 **Instructor**, University of Rhode Island, OCG106G You Me, and Life in the Sea, introductory undergraduates (Spring: 80 students, Fall: 62 students) Overall teaching evaluation for Spring: 4.4 out of 5 (87% response rate), for Fall: 4.2 out of 5 (97% response rate)
- 2018 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (16 students)
- 2018 **Instructor**, University of Rhode Island, OCG106G You Me, and Life in the Sea, introductory undergraduates (Spring: 75 students, Fall: 128 students) Overall teaching evaluation for Spring: 4.3 out of 5 (86% response rate), Fall Section 1: 4.3 out of 5 (80% response rate), Fall Section 2: 4.6 out of 5 (87% response rate)
- 2017 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (17 students)
- 2017 **Instructor**, UC-Santa Cruz, OCEA-80A: Life in the Sea, introductory undergraduates (122 students) Overall teaching evaluation 4.7 out of 5 (90% response rate)
- 2016 **Instructor**, UC-Santa Cruz, OCEA-80A: Life in the Sea, introductory undergraduates (110 students), Overall teaching evaluation 4.7 out of 5 (93% response rate)
- 2015 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (30 students)
- 2014 **Instructor**, UC-Santa Cruz, OCEA-01: The Oceans, introductory undergraduates (151 students), Overall teaching evaluation 4.6 out of 5 (62% response rate)
- 2014 **Instructor**, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course), graduate students (30 students)
- 2010 **Teaching Assistant**, MIT/WHOI Joint Program: 7.43: Biological Oceanography, graduate students (15 students)
- 2009 **Instructor**, Woods Hole Oceanographic Institution: Developed and co-taught three week course “Human Impacts on the Marine Environment,” advanced undergraduates (5 students)
- 2005 **Co-instructor**, Hillview Head Start Program, Lewiston, ME, developed and taught afterschool activity program for K-12 Head Start Program (35 students)

- 2004-5 **Technical Writing Assistant**, Bates College: Biological Principles, Ecology, Cellular and Molecular Biology, undergraduate students
2004-5 **Academic Tutor**, Bates College: Organic Chemistry I and II, Calculus I and II, Biological Principles, Ecology, undergraduate students
2003-5 **Teaching Assistant**, Bates College: Organic Chemistry I and II, Biological Principles, Ecology, undergraduate students

Academic Advising (* indicates active)

Postdoctoral Advisor: *Dr. Jonathan Cybulski (URI); *Dr. Stephane Martinez (URI); Dr. Matthew Ramirez (URI); *Dr. Kerri Smith (URI)

Ph.D. Advisor: Chantel Michelson (LSU co-advised with Dr. Michael Polito), *Audreyana Nash (URI); *Catherine Nowakowski (URI); *Joshua Pi (URI); *Lauren Romeiro (URI),

M.S. Advisor: *Lindsay Agvent (URI); Nina Santos (URI); Angela Stahl (URI)

M.O. Advisor: Rizkie Utama (URI)

Thesis committee member or outside examiner: *Sarah Davis, Ph.D. thesis, URI; Pascale Eisenmann Ph.D. thesis, Griffith University, Australia; *Victoria Fulfer, Ph.D. thesis, URI; *Kayla Grace Gardner, Ph.D. thesis, MIT-WHOI Joint Program; Danielle Glynn, Ph.D. thesis, UCSC; Carolyn Harris, Undergraduate honors thesis, Bates College; Hannah Haskell, M.S. thesis, URI; Izak Hill, M.S. thesis, URI; *Taylor Lindsay, Ph.D. thesis, URI; Basia Marcks, Ph.D. thesis, URI; Briana Michaud, Ph.D. thesis, University of South Florida; *Maddie Sachs, M.S. thesis, URI; *Rebecca Venezia, Ph.D. thesis, URI

Conference Presentations (#student author, *postdoctoral author)

29. **McMahon KW**, *Ramirez MD, #Besser AC, McCarthy MD, Newsome MD. “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, Aug 2022, Sapporo, Japan (Keynote Address)
28. **McMahon KW**, Ambrose, Jr. G, Reynolds MJ, Johnson BJ, Whiting A, Clough LM. Oral Presentation: “Terrestrial organic matter is an important organic carbon source across a five trophic level coastal Arctic food web” Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
27. **McMahon KW**. Invited Oral Presentation: “Exploring trophic responses of sympatric penguin species to historic anthropogenic exploitation and climate change using molecular isotope geochemistry.” 2nd International Symposium on Low Temperature Science, November 2021, Sapporo, Japan.
26. **McMahon KW**, #Michelson CI, Hart T, McCarthy MD, Patterson WP, Polito MJ. “Divergent trophic responses of sympatric penguin species to historic anthropogenic exploitation and recent climate change.” 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, May 2021, Virtual
25. **McMahon KW**, #Michelson CI, Polito MJ. “Divergent trophic responses of sympatric penguin species to historic anthropogenic exploitation and recent climate change.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA

24. **McMahon KW**, #Michelson CI, Christensen S, McCarthy MD, Polito MJ. Oral Presentation: “Amino acid isotopes in penguin feathers reveal a history of climate change and historic whaling in the Antarctic Peninsula.” 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, July 2018, Vina del Mar, Chile
23. **McMahon KW**, #Michelson CI, Polito MJ. Oral Presentation: “Developing compound-specific stable isotope analysis of archival penguin tissues to reconstruct past Antarctic ecosystem responses to climate change and anthropogenic disturbance” Ocean Sciences Meeting, February 2018, Portland, OR, USA
22. **McMahon KW**, McCarthy MD, Guilderson TP, Sherwood OA, Williams B, Larsen T, #Glynn D. Oral Presentation: “Amino acid stable isotope applications to deep-sea corals: A molecular geochemistry approach to reconstructing past ocean conditions” American Geophysical Union Fall Meeting, December 2017, New Orleans, LA, USA
21. **McMahon KW**, Berumen ML, Thorrold SR: Oral Presentation “Ontogenetic migration of snapper links food webs across a tropical seascape in the Red Sea” 13th International Coral Reef Symposium, June 2016, Honolulu, HI USA
20. **McMahon KW**, McCarthy MD. Oral Presentation “Embracing variability in amino acid $\delta^{15}\text{N}$ fractionation: Mechanisms, implications, and applications for trophic ecology.” 10th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, April 2016, Tokyo, Japan
19. **McMahon KW**, Guilderson TP, McCarthy MD, Sherwood OA, Larsen T, Williams B. Oral Presentation: “Millennial-scale plankton regime shifts in the subtropical North Pacific assessed by $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ compound-specific stable isotope analysis of deep-sea corals.” Ocean Sciences Meeting, February 2016, New Orleans, LA, USA
18. **McMahon KW**, Williams B, McCarthy M, Etnoyer P. Oral Presentation: “Developing bioproxies of past ocean ecosystem change through compound-specific stable isotope analysis of proteinaceous deep-sea corals.” American Geophysical Union Fall Meeting, December 2015, San Francisco, CA, USA
17. **McMahon KW**. Invited Oral Presentation: “Compound-specific stable isotope analysis in population and community ecology: theory, development, and a call for more laboratory experiments.” Ecological Society of America, August 2015, Baltimore, MD, USA
16. ***McMahon KW**, McCarthy MD, Guilderson TP. Oral Presentation: “Decadal to century scale changes in North Pacific Ocean phytoplankton communities assessed by $\delta^{13}\text{C}$ compound-specific stable isotope analysis of deep-sea corals.” Ocean Sciences Meeting, February 2014, Honolulu, HI, USA
15. ***McMahon KW**, Berumen ML, Thorrold SR. Oral Presentation: “Unraveling carbon flow pathways on coral reefs with compound specific stable isotope analysis.” 8th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, August 2012, Brest, France
14. ***McMahon KW**, Berumen ML, Thorrold SR. Oral Presentation: “Seascape connectivity in a Red Sea coral reef ecosystem.” 12th International Coral Reef Symposium, July 2012, Cairns, Australia
13. ***McMahon KW**, Berumen ML, Thorrold SR. Oral Presentation: “Functional connectivity of coral reef fishes in a Red Sea coral reef seascape assessed by compound specific stable isotope analysis.” Ocean Sciences Meeting, February 2012, Salt Lake City, UT, USA

12. ***McMahon KW**. Oral Presentation: “Functional connectivity of coral reef fishes in a Red Sea tropical seascape.” Living Oceans Foundation Symposium on Coral Reef Conservation in the Red Sea, January 2012, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
11. ***McMahon KW**. Oral Presentation: “Ontogenetic migration and trophic dynamics.” Red Sea Research Center Symposium, April 2011, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
10. #**McMahon KW**, Fogel ML, Thorrold SR. Poster Presentation: “A new tool for inferring trophic interactions and fish movement using stable carbon isotope analysis of otolith amino acids.” Ocean Sciences Meeting, February 2010, Portland, OR, USA
9. #**McMahon KW**, Fogel ML, Mateo I, Thorrold SR. Oral Presentation: “Stable carbon isotope analysis of amino acids in otolith protein: a new tool for tracking fish movement.” 4th International Otolith Symposium, August 2009, Monterey, CA, USA (Best Student Paper Award)
8. #**McMahon KW**, Fogel ML, Elsdon TS, Thorrold SR. Oral Presentation: “Carbon isotope fractionation of amino acids of a marine fish.” 33rd Annual Larval Fish Conference, July 2009, Portland, OR, USA (Sally Richardson Best Student Paper Award)
7. #**McMahon KW**, Fogel ML, Elsdon TS, Thorrold SR. Oral Presentation: “Patterns in carbon isotope fractionation of amino acids between diet and consumer in a model fish species.” 6th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, August 2008, Honolulu, HI, USA
6. #**McMahon KW**, Thorrold SR. Poster Presentation “Ocean ecogeochemistry applied to connectivity analyses in marine populations.” Isoscapes Conference, April 2008, Santa Barbara, CA, USA
5. #**McMahon KW**, Ambrose WG Jr., Johnson BJ, Sun M-Y., Lopez GR, Clough LM, Carroll M. Oral Presentation: “The impacts of a changing food supply on Arctic benthos: digestibility of ice algae and phytoplankton.” 34th Annual Benthic Ecology Meeting. April 2005, Williamsburg, VA, USA
4. #**McMahon KW**. Oral Presentation: “The Impacts of a changing food supply on Arctic benthos.” Mount David Research Symposium, March 2005, Lewiston, ME, USA
3. #**McMahon KW**, Johnson BJ, Ambrose WG Jr. Poster Presentation: “Contributions of local food items to the diet of *Fundulus heteroclitus*: analysis of $\delta^{13}\text{C}/\delta^{15}\text{N}$ and gut contents.” 33rd Annual Benthic Ecology Meeting. March 2004, Mobile, AL, USA
2. #**McMahon KW**. Poster Presentation: “Contributions of local food items to the diet of *Fundulus heteroclitus*” Mount David Research Symposium, March 2004, Lewiston, ME, USA
1. #**McMahon KW**, Warren RS, Fell PE. Poster Presentation: “Impacts of *Phragmites* control on selected ecological functions within tidelands of the Lieutenant River.” Connecticut College Research Symposium, August 2003, New London, CT, USA

Coauthored Conference Proceedings (#student author, *postdoctoral author)

66. #Zicari, S., Gourlay, A., Truesdale, C., #Agvent, L., Omand, M., Fischer, G., **McMahon, K.**, Bayer, S. “Effects of Acoustic Tag Attachment on Jonah Crab Molting, Growth, and Mortality.” American Fisheries Society SNEC Conference. January 2023, Boston MA.

65. #Moore RB, #Nowakowski C, #Agvent L, **McMahon KW**. "Modeling geospatial variation in carbon and nitrogen isotopes along the US Northeast Continental Shelf: Isoscape development for studies of movement and trophic ecology." American Fisheries Society SNEC Conference. January 2023, Boston MA
64. #Pi J, Crane NL, **McMahon KW**. "Assessing the herbivory status of nominally herbivorous coral reef fishes using amino acid $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ analysis." Goldschmidt, July 2022, Honolulu, HI, USA
63. *Smith KJ, Wimmer T, **McMahon KW**, Sherwood OA. "Reconstructing the spatial and trophic ecology of the stranded Sambro blue whale." Ocean Frontier 2022 Climate Action Conference. Halifax, May 2022, Nova Scotia, Canada
62. #Stahl AR, Rynearson TA, **McMahon KW**. "Identifying Novel Isotopic Tracers of Marine Primary Production to Study Food Web Carbon Cycles." Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
61. *Ramirez MD, #Besser AC, Newsome SD, **McMahon KW**. "Re-examining primary producer amino acid nitrogen isotope values and their influence on trophic position estimation in aquatic systems." Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
60. #Intemann-Milligan J, *Ramirez MD, Avens L, Godfrey M, Barco S, **McMahon KW**. "Evaluating resource use patterns in relation to changing prey abundance in co-occurring sea turtle species using molecular isotope geochemistry." Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
59. #Nowakowski C, Stamieszkin K, **McMahon KW**. "Food web dynamics of two juxtaposed copepods (*Calanus finmarchicus* and *Centropages typicus*) reflect variations in environmental ocean states over a multi-decadal time series." Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
58. #Pi J, Crane NL, **McMahon KW**. "Assessing the herbivory status of nominally herbivorous coral reef fishes using amino acid $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ analysis." Ocean Sciences Meeting, February 2022, Honolulu, HI, USA
57. *Ramirez MD, Avens L, Goshe LR, Clark JM, Meylan AB, Teas W, Shaver DJ, Godfrey MH, Howell L, **McMahon KW**. "Molecular isotopes reveal divergent energy flow pathways in a critically endangered spongivorous turtle." 151st American Fisheries Society Annual Meeting, November 2021, Baltimore, MD
56. #Michelson, CI, Polito MJ, **McMahon KW**. Divergent trophic responses of sympatric penguin species to shared historic environmental change. American Ornithological Society Virtual Conference, August 2021, Virtual
55. #Stahl AR, Rynearson TA, **McMahon KW**. "Identifying Novel Isotopic Tracers of Marine Primary Production to Study Food Web Carbon Cycles." 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, May 2021, Virtual
54. #Michelson CI, Polito MJ, Wunder MB, Emslie SD, McCarthy MD, Patterson WP, **McMahon KW**. "Late Holocene climate change directed shifts in Southern Ocean biogeochemical cycling and predator trophic dynamics." 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, May 2021, Virtual
53. *Ramirez MD, #Besser AC, Newsome SD, **McMahon KW**. "Meta-analysis of primary producer amino acid $\delta^{15}\text{N}$ values and their influence on trophic position estimation." 11th

- International Conference on Applications of Stable Isotope Techniques to Ecological Studies, May 2021, Virtual
52. #Reyes-Delgado A, #Santos N, #Langan JA, #Heinichen M, **McMahon KW** “Cod morphometric analysis reveals physical differences among sub-populations in the Georges Bank fisheries stock, Northwest Atlantic.” Southern New England Chapter of the American Fisheries Society’s Winter Meeting, January 2021, Virtual (won Best Student Presentation Award)
 51. #Reyes-Delgado A, #Santos N, #Langan JA, #Heinichen M, **McMahon KW** “Cod morphometric analysis reveals physical differences among sub-populations in the Georges Bank fisheries stock, Northwest Atlantic.” American Geophysical Union Fall Meeting, December 2020, Virtual, (won Outstanding Student Presentation Award)
 50. Ambrose WG Jr, Johnson JC, Clough LM, Whiting A, Griffith D, Johnson BJ, **McMahon KW**. “Utilizing Scientific Ecological Knowledge (SEK) and Traditional Ecological Knowledge (TEK) to delineate the coastal food web of Kotzebue Sound, Alaska.” 10th International Congress of Arctic Social Sciences, June, 2020, Virtual.
 49. #Tietbohl MD, Larsen T, **McMahon KW**, Houghton LA, Sinclair-Taylor T, Thorrold SR, Berumen ML. “Insights into the nutritional ecology of herbivorous reef fishes using compound-specific isotope analysis.” 14th International Coral Reef Symposium, July 2020, Bremen, Germany
 48. #Santos N, #Mayer C, #Langan J, **McMahon KW**. “Competition between Atlantic cod and black sea bass due to warming southern New England waters.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA
 47. #Stahl A, Rynearson T, **McMahon KW**. “Characterizing isotopic fingerprints of eukaryotic microalgae to study sources and cycling of organic matter through food webs.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA
 46. #Nowakowski C, Stamieszkin K, Record N, **McMahon KW**. “Time series analysis of *Calanus finmarchicus* and *Centropages typicus* abundance with respect to the converging time frequencies in multiple climate mechanisms in the Gulf of Maine.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA
 45. #Michelson CI, **McMahon KW**, Patterson WP, Emslie SD, Polito MJ. “Penguins as ecosystem proxies? Identifying millennial-scale shifts in carbon sources and phytoplankton regimes in the Antarctic marine ecosystem.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA
 44. Sherwood O, Renee Fougere C, Tibert BS, **McMahon KW**. “Amino acid $\delta^{13}\text{C}$ records from deep-sea corals of the NW Atlantic: Reconstructing plankton community composition in a rapidly changing ocean.” Ocean Sciences Meeting, February 2020, San Diego, CA, USA
 43. Polito, M.J., #Michelson, C., **McMahon, K.W.** “Advances in the use of biogeochemical markers to track the diets and movement of Antarctic marine predators.” Society for Integrative and Comparative Biology. January, 2020, Austin, TX
 42. #Santos N, #Mayer C, #Langan J, **McMahon KW**. “Competition between Atlantic cod and black sea bass due to warming southern New England waters.” Southern New England Chapter of the American Fisheries Society’s Winter Meeting, January 2020, Boston, MA, USA

41. Sherwood OA, Chen S, Fougere C, Tibert BS, **McMahon KW**. “Compound-specific carbon isotopes of essential amino acids in deep-sea corals of the NW Atlantic record changes in plankton community composition over the last century.” Goldschmidt Conference, August 2019, Barcelona, Spain
40. Guilderson T, **McMahon KW**, Sherwood O, McCarthy MD, #Glynn D, Williams BW, Roark B, Dunbar R, Shen Y. “A window opens from the mesopelagic: A proteinaceous deep-sea coral’s view of biogeochemistry and ecosystem change above.” Deep-Sea Biology Symposium, September 2018, Monterey, CA, USA
39. #Tietbol MD, Larsen T, **McMahon KW**, Houghton LA, Sinclair-Taylor T, Thorrold SR, Berumen ML. “Insights from compound-specific isotope analysis into the nutritional ecology of herbivorous reef fishes.” 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, July 2018, Vina del Mar, Chile
38. #Michelson CI, **McMahon KW**, Patterson WP, Emslie SD, McCarthy MD, Polito MJ. “Deciphering millennial-scale Antarctic ecosystem change using amino acid stable isotope analysis of modern and ancient penguin eggshell. 11th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, July 2018, Vina del Mar, Chile
37. #Michelson CI, **McMahon KW**, Emslie SD, Patterson WP, McCarthy MD, Polito MJ. “Penguin proxies: Deciphering millennial-scale Antarctic ecosystem change using amino acid stable isotope analysis.” American Geophysical Union Fall Meeting, December 2017, New Orleans, LA, USA
36. Thorrold SR, #Braun CD, Houghton LA, **McMahon KW**, Berumen ML. “Assessing functional diversity and food web architecture on central Pacific coral reefs with a compound-specific stable carbon approach.” IndoPacific Fish Conference, October 2017, Tahiti.
35. #Glynn DS, Guilderson TP, **McMahon KW**, McCarthy MD. “Dramatic nutrient and phytoplankton community shifts in the NPSG during recovery from Younger Dryas Cold Period and Little Ice Age.” 2017 Aquatic Sciences Meeting, February 2017, Honolulu, HI USA
34. #Preciado C, #Michelson CI, McCarthy MD, **McMahon KW**. “Calibrating compound-specific stable nitrogen isotope analysis in avian eggs as bioarchives for paleoreconstruction.” American Geophysical Union Fall Meeting, December 2016, San Francisco, CA, USA
33. Thorrold SR, **McMahon KW**, Houghton LA, Sandin SA, Berumen ML. “Tracing carbon flow through coral reef food webs using a compound-specific stable isotope approach.” 13th International Coral Reef Symposium, June 2016, Honolulu, HI USA
32. #Tietbohl MD, Thorrold SR, **McMahon KW**, Berumen ML, Choat JH, Houghton LA. “Assessing functional diversity of reef fish herbivores (and detritivores?) using a compound-specific stable isotope approach. 13th International Coral Reef Symposium, June 2016, Honolulu, HI USA
31. McCarthy MD, **McMahon KW**, Gier E, #Batista F. “Compound specific amino acids as paleo-proxies: Archives, potential, and emerging challenges. 10th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, April 2016, Tokyo, Japan

30. Thorrold SR, **McMahon KW**, #Braun CD, Berumen ML, Houghton LA. “Tracing Carbon Flow Through Food Webs on Isolated Coral Reefs in the Central Pacific Ocean Using a Compound-Specific Stable Isotope Approach” Ocean Sciences Meeting, February 2016, New Orleans, LA, USA
29. #Glynn D, McCarthy MD, **McMahon KW**, Guilderson TP. “High resolution record of NPSG primary production $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ from deep sea corals suggest major shifts in nutrient and phytoplankton composition over the last 5000 years.” Ocean Sciences Meeting, February 2016, New Orleans, LA, USA
28. #Wright Z, #Glynn D, **McMahon KW**, McCarthy MD. “A high-resolution, paleo-record of export production from a unique HNLC zone on the California Margin using deep-sea coral stable isotope values.” American Geophysical Union Fall Meeting, December 2015, San Francisco, CA, USA
27. #Miles KW, #Glynn DS, ***McMahon KW**, McCarthy MD, Guilderson TP. “Investigating past ocean ecosystem variability with $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ records in long lived deep-sea proteinaceous corals from the Central Equatorial Pacific. American Geophysical Union Fall Meeting, December 2014, San Francisco, CA, USA
26. #Glynn D, McCarthy MD, ***McMahon KW**, Guilderson TP. “Millennial scale oscillations in bulk $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ over the Mid- to Late Holocene seen in proteinaceous corals from the North Pacific Subtropical Gyre. American Geophysical Union Fall Meeting, December 2014, San Francisco, CA, USA
25. Sherwood O, ***McMahon KW**, Guilderson TP, McCarthy MD. “Late Holocene plankton domain shifts in the North Pacific Subtropical Gyre revealed by amino acid specific $\delta^{15}\text{N}$ and $\delta^{13}\text{C}$ records from proteinaceous deep-sea corals. American Geophysical Union Fall Meeting, December 2014, San Francisco, CA, USA
24. *Soreide J, Iken K, Bluhm B, Gradinger R, Renaud PE, Tamelander T, Tremblay JE, Hop H, Carroll ML, Ambrose WG Jr., ***McMahon KW**, Wooler M, Dunton K. “Stable isotope baselines in marine food webs: A pan-Arctic review.” Ocean Sciences Meeting, February 2014, Honolulu, HI, USA
23. *Soreide J, Iken K, Bluhm B, Gradinger R, Renaud PE, Tamelander T, Tremblay JE, Hop H, Carroll ML, Ambrose WG Jr., ***McMahon KW**, Wooler M, Dunton K. “Stable isotope baselines in marine food webs: A pan-Arctic review.” Arctic Marine Science Symposium, January 2014, Anchorage, AK, USA
22. #Leopold A, #Brault E, ***McMahon KW**. “Variation in bulk $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values of ancient Antarctic seal bones.” American Geophysical Union Fall Meeting, December 2013, San Francisco, CA, USA
21. Thorrold SR, ***McMahon KW**, Berumen ML. “Revisiting the source of carbon fueling fisheries on coral reefs.” 12th International Coral Reef Symposium, July 2012, Cairns, Australia
20. Thorrold SR, ***McMahon KW**, Berumen ML. “Revisiting the source of carbon fueling fisheries on coral reefs.” Ocean Sciences Meeting, February 2012, Salt Lake City, UT, USA
19. #DesRosiers N, Noble, M, ***McMahon KW**, Berumen ML. “Distribution patterns and ecology of *Amphiprion bicinctus* in the central Red Sea, Saudi Arabia.” 2nd Asia-Pacific Coral Reef Symposium, June 2010, Phuket, Thailand
18. Ambrose WG, Carroll ML, Clough LM, Greenacre M, #**McMahon KW**, Henkes G, Edgerly J “Bivalve (*Serripes groenlandicus*) and gastropod (*Neptunea heros*) growth in coastal

- northwest Alaska reflects Arctic climate regime shifts and local environmental factors.” International Polar Year Open Science Conference, June 2010, Oslo, Norway.
17. Skomal GB, Zeeman SI, Chisholm JH, Summers EL, Walsh HJ, #**McMahon KW**, Thorrold SR. “Mesopelagic trans-equatorial migrations by basking sharks in the western Atlantic Ocean” 25th Annual American Elasmobranch Society Meeting, July 2009, Portland, OR, USA
 16. Carroll ML, Johnson BJ, #Henkes GA, #**McMahon KW**, Voronkov A, Ambrose WG Jr., Denisenko SG. “Environmental regulation of bivalve growth in the southern Barents Sea: A combined ecological and geochemical approach.” EGU General Assembly Conference, April 2009, Vienna, Austria
 15. Graham B, Fry B, Popp B, Koch P, Newsome S, #**McMahon KW**. “Using isoscapes to trace the movements and foraging behavior of predators in oceanic ecosystems.” 6th Annual Isotope Ecology Conference, August 2008, Honolulu, HI, USA
 14. Carroll ML, Denisenko SG, Voronkov A, Ambrose WG, Henkes G, #**McMahon KW**. “Arctic bivalves as indicators of environmental variation from intra-annual to centennial timescales.” Ocean Sciences Meeting, ASLO, March 2008, Orlando, FL, USA
 13. Johnson BJ, Ambrose WG, Henkes G, #**McMahon KW**, Carroll ML. “Shifts in the $\delta^{13}\text{C}$ of *Serripes groenlandicus* shell organic matter: A proxy for intra- and interannual changes in primary production in the Arctic?” National American Chemical Society (ACS) Meeting, August 2007, Boston, MA, USA
 12. #Henkes GA, Ambrose WG Jr., Johnson BL, Carroll ML, #**McMahon KW**, Denisenko SG, Thorrold SR. “Tracing environmental variation over the past 130 years in the Barents Sea: Mineral ratio (Mg/Ca, Sr/Ca, Ba/Ca, and Mn/Ca) evidence in shells of the circumpolar greenland cockle, *Serripes groenlandicus*.” American Geophysical Union Fall Meeting, December 2007, San Francisco, CA, USA
 11. #Henkes GA, Johnson BJ, Ambrose WG, #**McMahon KW**, Carroll ML, Hop H “Examining environmental conditions in a Norwegian High Arctic Fjord: Evidence from *Serripes groenlandicus* (Bivalvia) growth rates and shell organic carbon isotope composition.” 1st International Sclerochronology Conference, July 2007, St. Petersburg, FL, USA
 10. Carroll ML, Ambrose WG, Greenacre M, Clough L, #**McMahon KW**, Thorrold SR, #Henkes GA, #Stinson L, #Edgerly J. “Arctic bivalves as proxies of local and large-scale climatic variations: Analysis of pan-Arctic growth patterns.” 1st International Sclerochronology Conference, July 2007, St. Petersburg, FL, USA
 9. Carroll ML, Ambrose WG, Greenacre M, Clough LM, #**McMahon KW**, #Stinson L, #Edgerly J, Thorrold S. “Arctic bivalves as proxies of local and large-scale climatic variations: Analysis of pan-Arctic growth patterns.” Ecosystems Dynamics in the Norwegian Sea and Barents Sea. March 2007, Tromsø Norway
 8. Johnson BJ, Ambrose WG, #**McMahon KW**, Carroll ML. “Shifts in the $\delta^{13}\text{C}$ of *Serripes groenlandicus* shell organic matter: A proxy for intra- and interannual changes in primary production in the Arctic?” New England Geological Society American Annual Meeting. March 2007, Durham, NH, USA
 7. Johnson BJ, Ambrose WG Jr., #Henkes GA, #**McMahon KW**, Carroll ML. “Shifts in the $\delta^{13}\text{C}$ of *Serripes groenlandicus* shell organic matter: A proxy for intra- and interannual changes in primary production in the Arctic?” American Chemical Society, 2007, Washington, D.C., USA

6. Johnson BJ, Ambrose WG, #**McMahon KW**, Carroll ML. “Shifts in the $\delta^{13}\text{C}$ of *Serrripes groenlandicus* shell organic matter: A proxy for intra- and interannual changes in primary production in the Arctic?” Arctic Frontiers Meeting, January 2007, Tromsø, Norway
5. Ambrose WG, Carroll ML, Nolan K, Retelle M, Greenacre M, #**McMahon KW**. “Climate change on Svalbard: Evidence from modern and fossil bivalves.” Arctic Frontiers Meeting. January 2007, Tromsø, Norway
4. Clough LM, Ambrose WG, Betournay S, Carroll ML, Lopez GR, Meltzer K, Sun M-Y, #**McMahon KW**, Richardson M. “The digestibility of ice algae and phytoplankton: Impacts on arctic benthic macrofauna.” Ocean Sciences Meeting. February 2006, Honolulu, HI, USA
3. Carroll ML, Ambrose WG, Greenacre M, #**McMahon KW**, Thorrold SR. “Patterns of variation in bivalve growth in a Norwegian High-Arctic Fjord: Evidence for local- and large-scale forcing.” American Society of Limnology and Oceanography (ASLO) Summer Meeting. June 2005, Santiago de Compostela, Spain
2. Ambrose WG, Carroll ML, Greenacre M, #**McMahon KW**, Thorrold SR. ““Patterns of variation in bivalve growth in a Norwegian High-Arctic Fjord: Evidence for local- and large-scale forcing.” 34th Annual Benthic Ecology Meeting. April 2005, Williamsburg, VA, USA
1. Carroll ML, Clough LM, Sun M-Y, Lopez GR, Ambrose WG, #**McMahon KW**. “Response of Arctic benthic communities to variable food supplies associated with climatic change: Ice algae vs. phytoplankton.” Gordon Research Conference on Polar Marine Sciences. March 2005, Ventura, CA, USA

Invited Seminars and Guest Lectures

73. Invited Seminar: Department of Ecology and Evolutionary Biology, January 2023, University of Michigan, Ann Arbor MI, USA
72. Invited Seminar and Panelist: United States Agency for International Development: Center for Adaptive and Innovative Statecraft IUUF Applied Research Series, August 2022, Virtual
71. Invited Seminar: TechCamp – Kochi: US Department of State, International Diplomacy Program, May 2022, Kochi, India
70. Guest Lecture: ES423/623: Marine Biogeochemistry, Feb 2022, Boston University, Boston, MA, USA
69. Invited Seminar: Ocean Sciences Department, May 2021, University of California – Santa Cruz, CA, USA
68. Guest Lecture: ES423/623: Marine Biogeochemistry, Apr 2021, Boston University, Boston, MA, USA
67. Invited Seminar: Donner Foundation Climate Seminar, April 2021, Newport, RI, USA
66. Invited Seminar: Aquidneck Land Trust Climate Series, April 2021, Portsmouth High School, Newport, RI, USA
65. Invited Seminar: Aquidneck Land Trust Climate Series, April 2021, Rogers High School, Newport, RI, USA
64. Invited Seminar: Department of Marine Sciences, Oct 2020, University of Connecticut, Avery Point, CT, USA

63. Invited Seminar: Aquidneck Land Trust Climate Series, May 2020, Portsmouth High School, Newport, RI, USA
62. Invited Seminar: Aquidneck Land Trust Climate Series, May 2020, Rogers High School, Newport, RI, USA
61. Guest Lecture: OCG521 Chemical Oceanography (11 graduate students), February 2020, University of Rhode Island, Narragansett, RI, USA
60. Invited Seminar: Quark Enterprises - Antarctica Research Cruise, 3 seminars, January 2020, M/V Ocean Endeavor, Western Antarctic Peninsula
59. Marine Biology Friday Afternoon Special Sessions, September 2019, University of Rhode Island, South Kingston, RI, USA
58. Invited Seminar: Physical Sciences Department Colloquium, April 2019, Rhode Island College, Providence, RI, USA
57. Invited Seminar: Biology Department Seminar, April 2019, Boston University, Boston, MA, USA
56. Invited Seminar: Quark Enterprises - Antarctica Research Cruise, 3 seminars, Feb – Mar, 2019, M/V Ocean Endeavor, Falklands (Malvinas), South Georgia, Western Antarctic Peninsula
55. Invited Seminar: Biology Department, January 2019, Bates College, Lewiston, ME, USA
54. Invited Seminar: Biology Department, November 2018, James Madison University, Harrisonburg, VA, USA
53. Invited Seminar: Synergist I: *Deepstaria enigmatica*, October 2018, AS220 Main Stage, Providence, RI, USA
52. Invited Seminar: Dean's Advisory Council Meeting, September 2018, University of Rhode Island, South Kingston, RI, USA
51. Guest Lecture: OCG561 Biological Oceanography (21 graduate students), October 2018, University of Rhode Island, Narragansett, RI, USA
50. Invited Seminar: Institute of Environmental Science and Evolution, July 2018, Universidad Austral de Chile, Valdivia, Chile
49. Invited Seminar: Biological and Environmental Sciences Colloquium, March 2018, University of Rhode Island, South Kingston, RI, USA
48. Invited Seminar: Biology Department, March 2018, University of Tampa, Tampa, FL, USA
47. Invited Seminar: Phoenix Islands Protected Area – UNESCO World Heritage Site Annual Meeting, February 2018, Portland, OR, USA
46. Invited Seminar: Graduate School of Oceanography, April 2017, University of Rhode Island, Narragansett, RI, USA
45. Invited Seminar: Life and Environmental Sciences, April 2017, University of California-Merced, Merced, CA, USA
44. Invited Seminar: Zoology Department, January 2017, University of British Columbia, Vancouver, Canada
43. Invited Seminar: Ocean Science Department, January 2017, University of California-Santa Cruz, Santa Cruz, CA, USA
42. Invited Seminar: Quark Enterprises - Antarctica Research Cruise, 3 seminars, December, 2016, M/V Ocean Endeavor, Western Antarctic Peninsula
41. Guest Lecturer: OCEA-01 The Oceans (150 undergraduate students), November 2016, University of California-Santa Cruz, Santa Cruz, CA, USA

40. Invited Seminar: Phoenix Islands Protected Area – UNESCO World Heritage Site Annual Meeting, June 2016, Honolulu, HI, USA
39. Invited Seminar: International Symposium on Stable Isotopes in Marine Environments, May 2016, Hanyang University, Seoul, South Korea
38. Invited Seminar: Australian Rivers Institute, April 2016, Griffith University, Brisbane, Australia
37. Invited Seminar: College of Coast and Environment Department, April 2016, Louisiana State University, Baton Rouge, LA, USA
36. Invited Seminar: Workshop I and II: Stable isotope analysis in Marine Mammal Ecology, December 2015, 21st Biennial Conference on Marine Mammals, San Francisco, CA. Two-day workshop presenter
35. Invited Seminar: Marine and Environmental Biology, November 2015, University of Southern California, Los Angeles, CA, USA
34. Invited Seminar: Ocean Science Department, October 2015, University of California-Santa Cruz, Santa Cruz, CA, USA
33. Guest Lecturer: BIO301 Ecology and Biology of Coral Reefs (25 undergraduate students), April 2015, Wake Forest University, Winston-Salem, NC, USA
32. Guest Lecturer: EART-299 Isotopic Methods in Environmental Science (12 undergraduate students) March 2015, University of California-Santa Cruz, Santa Cruz, CA, USA
31. Invited Seminar: Keck Science Department, February 2015, Claremont McKenna College, Claremont, CA, USA
30. Guest Lecture: EA52 Environmental Science, Policy, and Politics (45 undergraduates), February 2015, Claremont McKenna College, Claremont, CA, USA
29. Invited Seminar: Center for Accelerated Mass Spectrometry, July 2014, Lawrence Livermore National Laboratory, Livermore, CA, USA
28. Invited Seminar: Chesapeake Biological Laboratory, July 2014, University of Maryland, Solomons, MD, USA
27. Invited Seminar: Scripps Institution of Oceanography, April 2014, University of California-San Diego, La Jolla, CA, USA
26. Invited Seminar: Environmental Earth System Science Department, March 2014, Stanford University, Palo Alto, CA, USA
25. Invited Seminar: Environmental Earth System Science Department, January 2014, University of California-Merced, Merced, CA USA
24. Invited Seminar: Environmental Earth System Science Seminar, December 2013, Stanford University, Palo Alto, CA, USA
23. Invited Seminar: Southwest Fisheries Science Center, November 2013, NOAA Fisheries Service, Santa Cruz, CA, USA
22. Invited Seminar: iDive SCUBA-Hack, August 2013, Marine Science and iOS developer workshop, San Francisco, CA, USA
21. Invited Seminar: Ocean Science Department, May 2013, University of California-Santa Cruz, Santa Cruz, CA, USA
20. Guest Lecturer: ES291 Environmental Systems Seminar (45 undergraduate students), April 2013, University of California-Merced, Merced, CA, USA
19. Guest Lecturer: OCEA-290J Topics in Marine Organic Geochemistry (15 undergraduate students) April 2013, University of California-Santa Cruz, Santa Cruz, CA, USA

18. Invited Seminar: Red Sea Research Center Department, December 2012, King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia
17. Guest Lecture: MarSE221 Marine Life (20 graduate students), November 2012, King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia
16. Invited Seminar: Biology Department, October 2012, Bates College, Lewiston, ME, USA
15. Guest Lecturer: Bio313 Marine Ecology (15 undergraduate students), October 2012, Bates College, Lewiston, ME USA
14. Guest Lecturer: Geo340 Stable Isotope Geochemistry (12 undergraduate students), October 2012, Bates College, Lewiston, ME USA
13. Invited Seminar: Workshop II: Sampling animal tissues for stable isotope analysis, August 2012, 8th Annual Isotope Ecology Conference, Brest, France. Workshop co-organizer and presenter.
12. Invited Seminar: ARC Centre of Excellence Coral Reef Studies, June 2011, James Cook University, Townsville, Australia
11. Invited Seminar: Sea Education Association, June 2010, Woods Hole, MA, USA
10. Invited Seminar: Biology Department, February 2010, Connecticut College, New London, CT, USA
9. Invited Seminar: Biology Department, November 2009, Woods Hole Oceanographic Institution, Woods Hole, MA
8. Invited Seminar: Ocean Science Journalism Fellows Lecture, September 2009, Woods Hole Oceanographic Institution, Woods Hole, MA, USA
7. Invited Seminar: Biology Department, February 2009, Bates College, Lewiston, ME, USA
6. Invited Seminar: Trustee and Corporation Member Lecture, October 2008, Woods Hole Oceanographic Institution, Woods Hole, MA, USA
5. Guest Lecture: BIOL1880 Comparative Biology of Vertebrates (38 undergraduate students), October 2008, Brown University, Providence, RI, USA
4. Invited Seminar: Ocean Science Journalism Fellows Lecture, September 2008, Woods Hole Oceanographic Institution, Woods Hole, MA, USA
3. Guest Lecture: Marine Biology (20 high school students), May 2007, Codman Academy, Dorchester, MA, USA
2. Invited Seminar: School of Marine and Atmospheric Sciences Lecture, April 2005, Stony Brook University, Stony Brook, NY, USA
1. Invited Seminar: Ecology and Evolutionary Biology Department Lecture, October 2004, Cornell University, Ithaca, NY, USA

Justice, Equity, Diversity, and Inclusion Initiatives

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| 2023-present | URI JEDI Committee member |
| 2023 | Inclusive Teaching Pedagogy and Decolonizing Curriculum Workshop Lead |
| 2022 | URI JEDI Series: Decolonizing Our Oceanography Curriculum Workshop Lead |
| 2022-present | URI Diversity and Inclusion Badge Program: Developed and lead a recurring workshop on building a diverse mentor network for the URI Microcredential in JEDI |
| 2022 | TechCamp – Kochi: US Department of State, International Diplomacy Program, May 2022, Kochi, India: Workshop on coproduction of knowledge with Indigenous communities for sustainable fisheries management |



- 2022 URGE Pod participant: URI-GSO
- 2022 Panelist: ST14 Mental Health and Self Care in Ocean Sciences, Ocean Sciences Meeting, Virtual
- 2021-2022 Search Committee Chair: URI-GSO Assistant Dean of Justice, Equity, Diversity, and Inclusion (successful)
- 2021 URI Welcome and Community Connection – Mentor Networking Breakout session lead
- 2021 Entering Mentoring and Inclusive Mentoring Training – Center for the Improvement of Mentored Experiences in Research and National Research Mentoring Network
- 2020-2022 Committee Member: American Geophysical Union Inclusive Graduate Education Network - Bridges Program URI GSO & CELS
- 2019-present Summer Undergraduate Research Fellowship in Oceanography (SURFO) Mentor. NSF REU program at URI-GSO
- 2018-present Society for Women in Marine Sciences (SWMS): Graduate Student Mentor; Society for Women in Marine Sciences (SWMS) Symposium. Session Moderator: Narragansett, RI Mar 2018; Woods Hole, MA Sept 2018; Narragansett, RI Dec 2020
- 2014-present ASLO Graduate Student Mentor
- 2014-2017 Project Leader, Community College Research Internship for Scientific Engagement CC-RISE, University of California, Santa Cruz
- 2013 Project Leader, High School Summer Student Internship Program, University of California – Santa Cruz (Santa Cruz, CA, June – December 2013).

Synergistic Activities

- 2024 Ocean Sciences Meeting. Session co-organizer and co-chair: Leveraging historical archives to reconstruct ecological processes across temporal and spatial scales, Feb 2024
- 2023 Chief Scientist: Gulf of Maine Cruise aboard R/V Endeavor (EN700): April 18-26, 2023
- 2022 Science Exploration Camp Presenter – Inner Space Center, for RI Middle School and High School students
- 2022 Scientist Volunteer: “The Scientist is in” GSO and the Roger Williams Park Zoo Program for Earth Day
- 2022 Metcalf 24th Annual Science Immersion Workshop for Journalists: Science coach
- 2022 Ocean Sciences Meeting. Session organizer and co-chair: Compound-specific isotopes in marine ecology and biogeochemistry: analysis and applications, March 2022
- 2022-2023 Chair: Campus Community Committee
- 2021 2021 UCAR Annual Members Meeting - Participation
- 2021 Scientist Volunteer: “The Scientist is in” GSO and the Roger Williams Park Zoo Program for World Ocean’s Day
- 2021 Metcalf 23rd Annual Science Immersion Workshop for Journalists: Science coach
- 2021 RI C-AIM Vis-a-thon Program, science collaboration with RISD

- 2020-present Student Admission and Review Committee – Biology Representative since 2020, Chair since 2021 (URI-GSO)
- 2020 Chief Scientist: Antarctica Research Cruise aboard M/V Ocean Endeavor Quark Enterprises (END010720): Jan 6-18, Western Antarctic Peninsula)
- 2019 Chief Scientist: Antarctica Research Cruise aboard M/V Ocean Endeavor Quark Enterprises (END021819): Feb 16 – Mar 13, Falklands (Malvinas), South Georgia, Western Antarctic Peninsula.
- 2019 Search Committee Member: Tenure track faculty position in Ecosystem Modeling (successful)
- 2018-2020 Committee Member: Environmental Sustainability Committee, Transportation subcommittee
- 2018-2021 Committee Member: URI-GSO Self-Study Committee, Communication and Public Outreach subcommittee
- 2018-present Skype-a-Scientist Educator: K-12 education and outreach
- 2018 Ocean Sciences Meeting. Session organizer and chair, student presentation judge: Integrative approaches and emerging techniques to study the sources and cycling of organic matter through isotope ecology and geochemistry, Portland, OR, Feb 2018
- 2017-present IsoBank – Environmental Isotope Chemistry Subgroup Committee member
- 2017 ASLO Aquatic Sciences Meeting. Session co-organizer and co-chair: Tracing ecological dynamics and biogeochemical cycles via compound-specific isotope analysis (CSIA) of organic compounds, Honolulu, HI February 2017
- 2016 Chief Scientist: Antarctica Research Cruise aboard M/V Ocean Endeavor Quark Enterprises (END120316): Dec 1 – Dec 14, Western Antarctic Peninsula
- 2016 12th International Coral Reef Symposium. Session co-organizer and co-chair: Movement Ecology on Coral Reefs, (Honolulu, HI, June 2016).
- 2014-present Scholarship Committee Chair, University of Utah, Isotopes in Spatial Ecology and Biogeochemistry (SPATIAL Short Course)
- 2014 Organizer and chair, Section F Session 153: Using Compound-Specific Stable Isotope Analysis to Advance Population and Community Ecology, Ocean Sciences Meeting (Honolulu, HI, Feb 2014)
- 2013 Marine Science advisor, iDive SCUBA-Hack to develop apps for the new Apple iPad underwater housing unit (iDive) in conjunction with iOS developers
- 2012-present Science Advisory Project Member, Phoenix Islands Protected Area – UNESCO World Heritage Site
- 2012 Co-Organizer, Workshop II: Sampling animal tissues for stable isotope analysis, 8th Annual Isotope Ecology Conference (Brest, France, August 2012).
- 2012 Project Leader, Bates College Career Discovery in Practice, Woods Hole Oceanographic Institution (Woods Hole, MA, January 2012).

Manuscript reviewer for: *Amino Acids, Aquaculture Research, Aquatic Ecology, Coral Reefs, Current Biology, Deep Sea Research, Ecological Monographs, Ecology, Ecology and Evolution, Ecology Letters, Ecosphere, Environmental Microbiology, Environmental Science and Technology, Estuaries, Frontiers in Marine Science, Functional Ecology, Geochimica et Cosmochimica Acta, Global Change Biology, Hydrobiologia, ICES Journal of Marine Science, Journal of Animal*

Ecology, Journal of Experimental Marine Biology and Ecology, Journal of Fish Biology, Journal of Sea Research, Limnology and Oceanography, Limnology and Oceanography Letters, Marine Biology, Marine Biology Research, Marine Chemistry, Marine Ecology, Marine Ecology Progress Series, Marine Environmental Research, Marine Mammal Science, Methods in Ecology and Evolution, Nature, Oecologia, Philosophical Transactions of Royal Society B, PLOS One, Polar Biology, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B, Progress in Oceanography, Rapid Communications in Mass Spectrometry, Scientific Reports

Grant reviewer for: *Canada Foundation of Innovation, Marsden Fund, National Geographic Society, National Science Foundation (DEB: LTER; EAR: GG, SGP; GEO: OCE – BIO, OCE-CHEM, CAMEO; OPP: ANS, AON), NSF Panel Member (2015, 2020), NOAA Panel Member (2020); Natural Environment Research Council; Sea Grant; UK Department of Environment, Food, and Rural Affairs; The Rolex Awards for Enterprise; The Royal Society: Newton International Fellowship*

Dive certifications: AAUS Scientific Diver, NAUI Advanced Open Water, NAUI Rescue Diver, NAUI Nitrox, NAUI Drysuit, IANTD Closed-Circuit rebreather

Society membership: American Association for Underwater Scientists, American Fisheries Society, Association for the Sciences of Limnology and Oceanography, Divers Alert Network, Ecological Society of America, Society for Women in Marine Sciences, National Research Mentoring Network

Current as of July 2023