

## CURRICULUM VITAE

## **Amanda Southwood Williard**

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### ***Current Position***

Professor Department of Biology and Marine Biology  
University of North Carolina at Wilmington

## *Education*

2002 Ph.D. Zoology, University of British Columbia, Vancouver, BC, Canada  
1997 M.Sc. Zoology, University of British Columbia, Vancouver, BC, Canada  
1993 B.Sc. Marine Biology, Auburn University, Auburn, AL, USA, Magna cum laude

## *Experience*

2024-present	Graduate Program Coordinator, Department of Biology and Marine Biology University of North Carolina Wilmington
2016-present	Professor, Department of Biology and Marine Biology University of North Carolina Wilmington
2011 – 2016	Associate Professor, Department of Biology and Marine Biology University of North Carolina Wilmington
2005 – 2011	Assistant Professor, Department of Biology and Marine Biology University of North Carolina Wilmington
2004 – 2005	Associate Researcher (Advisor – Dr. J. Yonat Swimmer) NOAA Fisheries & The Joint Institute for Marine and Atmospheric Research, University of Hawaii
2003-2004	Post-Doctoral Fellow (Advisor – Dr. J. Yonat Swimmer) NOAA Fisheries & The Joint Institute for Marine and Atmospheric Research, University of Hawaii
1994-2002	Graduate Research Assistant (Advisor – Dr. David R. Jones) Department of Zoology, University of British Columbia
1993-1994	Principle Laboratory Technician (Supervisor – Dr. Charles Mactutus) Tobacco and Health Research Institute, University of Kentucky
1991-1992	Research Assistant (Advisor – Dr. Stephen Kempf) Research Experience for Undergraduates Grant (NSF), Department of Biology, Auburn University
1990	Assistant Laboratory Technician (Supervisor – Dr. James Wojciehowski) Environmental Health Research and Testing, Lexington, KY

## *Teaching*

2005-present Instructor of Record – Department of Biology and Marine Biology, University of North Carolina at Wilmington, *Principles of Biology (BIO204)*, *Animal Physiology (BIO345)*, *Environmental Physiology (BIO445)*, *Herpetology (BIO354)*, *Senior Seminar (BIO495)*, *Honors Seminar (HON120)*, *Graduate Teaching Practicum (BIO694)*

2000-2003	Facilitator - Department of Zoology, University of British Columbia <i>Advanced Topics in Comparative Physiology (ZOOL503)</i>
2001-2002	Lecturer - Department of Zoology, University of British Columbia <i>Comparative Physiology (BIOL454)</i>
2000-2002	Problem Based Learning (PBL) Tutor - Faculty of Medicine, University of British Columbia, <i>Principles of Human Biology, Cardio-Respiratory Physiology</i>
2000-2001	Guest Lecturer - Department of Zoology, University of British Columbia <i>Animal Physiology (BIOL353), Comparative Physiology (BIOL454)</i>
1996-1998	Laboratory Assistant - Department of Zoology, University of British Columbia <i>Human Anatomy and Physiology (BIOL153), Vertebrate Anatomy (BIOL204)</i>

### ***Peer-reviewed Publications***

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- Fraleigh DC, Archer FI, Williard AS, Huckstadt LA, Fleming AH. 2023. Possible niche compression and individual specialization in Pacific Arctic beluga (*Delphinapterus leucas*) from the 19th to 20th century. *Ecology and Evolution* 2023;13:e10230. <https://doi.org/10.1002/ece3.10230>
- Hansen DA, Williard AS, Scharf FS. 2022. Thermal sensitivity of gill Na<sup>+</sup>/K<sup>+</sup> ATPase activity in juvenile red drum. *Journal of Experimental Marine Biology and Ecology* 554: 151778. <https://doi.org/10.1016/j.jembe.2022.151778>
- Wilson L, Romano S, Williard AS. 2022. Efficacy of Fisheries-Sourced Bycatch Reduction Solutions in Preventing Capture of Diamond-backed Terrapins (*Malaclemys terrapin*) in Blue Crab Pots. *Herpetological Conservation and Biology* 17(1):76–84.
- Degenford JH, Liang D, Bailey H, Hoover AL, Zárate P, Azócar J, Devia D, Alfaro-Shigueto J, Mangel JC, de Paz N, Quiñones Davila J, Sarmiento Barturen D, Rguez-Baron JM, Williard AS, Fahy C, Barbour N, Shillinger GL. 2021. Using fisheries observation data to develop a predictive species distribution model for endangered sea turtles. *Conservation Science and Practice* 2021;3:e349. <https://doi.org/10.1111/csp2.349> .
- Ortiz-Alvarez C., Pajuelo M., Grados D., Abrego M.E., Barragan-Rocha A.R., Barrantes M., Cotto Sanchez A., Fonseca L.G., Gadea Espinal V., Mangel J.C., Rguez-Baron J.M., Santidrian-Tomillo P., Sarti L., Santana-Hernandez H., Shillinger G., Prado M., Wallace B., Williard A.S., Zavala-Norzagaray A.A., Alfaro-Shigueto J. 2020. Rapid assessments of leatherback small-scale fishery bycatch in internesting areas in the eastern Pacific Ocean. *Frontiers in Marine Science* 6:813 doi: 10.3389/fmars.2019.00813
- Laúd OPO Network<sup>†</sup>. 2020. Enhanced, coordinated conservation efforts required to avoid extinction of critically endangered Eastern Pacific leatherback turtles. *Scientific Reports* 10:4772 (<https://doi.org/10.1038/s41598-020-60581-7>)  
† Ábrego ME, Acuña-Perales N, Alfaro-Shigueto J, Azócar J, Barragán Rocha AR, Baquero A, Cotto A, Darquea J, de Paz N, Donoso M, Dutton PH, Fonseca L, Gadea V, García D, Genovart M, Jimenez A, del Rosario Juárez M, López Sánchez KC, Mangel JC, Martínez Suzano ML, Miranda C, Ocampo E, Ordaz Becerra A, Ortiz-Alvarez C, Paladino FV, PasaraPolack A, Pingo S, Piedra Chacó R, Quiñones J, Rguez-Baron JM<sup>3</sup>, Salas Jiménez JC, Salazar H, Santidrián Tomillo P, Sarti Martínez AL, Spotila JR, Tavera A, Urteaga J, Vallejo F, Velez E, Wallace BP\*, Williard AS, Zárate PM.
- Williard A.S., Harden L.A., Jones T.T., Midway S.R. 2019. Effects of temperature and salinity on body fluid dynamics and metabolism in the estuarine diamondback terrapin (*Malaclemys terrapin*). *The Journal of Experimental Biology* 222, jeb202390. doi:10.1242/jeb.202390

- Yang, T., Haas, H.L., Patel, S., Smolowitz, R., James, M.C., Williard, A.S. 2019. Blood biochemistry and haematology of migrating loggerhead turtles (*Caretta caretta*) in the Northwest Atlantic: reference intervals and intra-population comparisons. *Conservation Physiology* 7: coy079; doi:10.1093/conphys/coy079.
- Barco SG, Burt ML, DiGiovanni RA Jr, Swingle WM, Williard AS. 2018. Loggerhead turtle *Caretta caretta* density and abundance in Chesapeake Bay and the temperate ocean waters of the southern portion of the Mid-Atlantic Bight. *Endangered Species Research* 37: 269-287. <https://doi.org/10.3354/esr00917>
- Wildermann NE, Gredzens C, Avens L, Barrios-Garrido HA, Bell I, Blumenthal J, Bolten AB, Braun McNeill J, Casale P, Di Domenico M, Domit C, Epperly SP, Godfrey MH, Godley BJ, González-Carman V, Hamann M, Hart KM, Ishihara T, Mansfield KL, Metz TL, Miller JD, Pilcher NJ, Read MA, Sasso C, Seminoff JA, Seney EE, Williard AS, Tomás J, Vélez-Rubio GM, Ware M, Williams JL, Wyneken J, Fuentes MMPB. 2018. Informing research priorities for immature sea turtles through expert elicitation. *Endangered Species Research* 37: 55-76. <https://doi.org/10.3354/esr00916>
- Williard, A.S., Hall, A.G., Fujisaki, I., McNeill, J.B. 2017. Oceanic overwintering in juvenile green turtles *Chelonia mydas* from a temperate latitude foraging ground. *Marine Ecology Progress Series* 564:235-240.
- Barco, S., Law, M., Drummond, B., Koopman, H., Trapani, C., Reinheimer, S., Rose, S., Swingle, M., Williard, A.S. 2016. Loggerhead turtle killed by vessel and fishery interaction in Virginia, USA, are healthy prior to death. *Marine Ecology Progress Series* 555:221-234.
- Chavez, S.J., Williard, A.S. 2016. The Effects of Bycatch Reduction Devices on Diamondback Terrapin and Blue Crab Catch in the North Carolina Commercial Crab Fishery. *Fisheries Research* 186: 94-101.
- Williard, A., Parga, M., Sagarminaga, R., Swimmer, Y. 2015. Physiological ramifications for loggerhead turtles captured in pelagic longlines. *Biology Letters* 11: 20150607.
- Harden, L.A., Midway, S.R., Williard, A.S. 2015. The blood biochemistry of overwintering diamondback terrapins (*Malaclemys terrapin*). *Journal of Experimental Marine Biology and Ecology* 466: 34-41.
- Harden, L.A., Duernberger, K.A., Jones, T.T., Williard, A.S. 2014. Total body water and water turnover rates in the estuarine diamondback terrapin (*Malaclemys terrapin*) during the transition from dormancy to activity. *Journal of Experimental Biology* 217: 4406-4413.
- Casey, J.P., James, M.C., and Williard, A.S. 2014. Behavioral and metabolic contributions to thermoregulation in freely swimming leatherback turtles at high latitudes. *Journal of Experimental Biology* 217: 2331-2337.
- Williard, A.S. 2013. Physiology as Integrated Systems. In *The Biology of Sea Turtles* (vol. 3). Wyneken, J., Lohmann, K., and J. Musick (eds.). Boca Raton, FL. CRC Press. pp 1-30.
- Harden, L.A., Williard, A.S. 2012. Using a spatially-explicit landscape risk model to investigate bycatch risk of terrapins in crab pots. *Marine Ecology Progress Series* 467:207-217
- DeGregorio, B., Williard, A. S. 2011. Incubation temperatures and metabolic heating of relocated and in situ loggerhead sea turtle (*Caretta caretta*) nests at a northern rookery. *Chelonian Conservation and Biology* 10(1), 54-61.
- Southwood Williard, A., Harden, L.A. 2011. Seasonal changes in thermal environment and metabolic enzyme activity in the diamondback terrapin (*Malaclemys terrapin*). *Comparative Biochemistry and Physiology, Part A* 158(4), 477-484.
- Casey, J.P., Garner, J., Garner, S., Southwood Williard, A. 2010. Diel foraging behavior of gravid leatherback sea turtles in deep waters of the Caribbean Sea. *Journal of Experimental Biology* 213: 3961-3971.

- Snoddy, J.E., Southwood Williard, A. 2010. Movements and post-release mortality of juvenile sea turtles released from gillnets in the lower Cape Fear River, North Carolina, USA. *Endangered Species Research* 12: 235-247.
- Goshe, L., Avens, L. Scharf, F., Southwood A. 2010. Estimation of age at maturation and growth of Atlantic green turtles (*Chelonia mydas*) using skeletochronology. *Marine Biology* 157:1725-1740.
- Southwood, A., Avens, L. 2010. Physiological, behavioral, and ecological aspects of migration in reptiles. *Journal of Comparative Physiology B* 180(1):1-23.
- Snoddy, J. , Landon, M., Blanvillain, G., Southwood, A. 2009. Blood biochemistry of sea turtles captured in gillnets in the lower Cape Fear River, North Carolina, USA. *Journal of Wildlife Management* 73(8):1394-1401.
- Southwood, A.L., Fritsches, K., Brill, R.W., Swimmer, J.Y. 2008. Sound, chemical, and light detection in sea turtles and pelagic fishes: sensory-based approaches to bycatch reduction in longline fisheries. *Endangered Species Research* 5: 225-238.
- Southwood, A.L., Higgins, B.M., Brill, R.W., Swimmer, J.Y. 2006. Chemoreception in loggerhead sea turtles. *In Sea Turtle and Pelagic Fish Sensory Biology: Developing Techniques to Reduce Sea Turtle Bycatch in Longline Fisheries.* (Eds. Y. Swimmer and R. Brill). U.S. Department of Commerce, NOAA Technical Memorandum, NOAA- NMFS- PIFSC-7: p41-56.
- Southwood, A.L., Reina, R.D., Jones, V.S., Speakman, J.R., and Jones, D.R. 2006. Seasonal metabolism of juvenile green turtles at Heron Island, Australia. *Canadian Journal of Zoology* 84(1): 125-135.
- Southwood, A.L., Andrews, R.D., Paladino, F.V., and Jones, D.R. 2005. Effects of diving and swimming behaviour on body temperatures of leatherback sea turtles in tropical seas. *Physiological and Biochemical Zoology* 78(2): 285-297.
- Jones, D.R., Southwood, A.L., Andrews, R.D. 2004. Energetics of Leatherback Sea Turtles. *In Experimental Approaches to Conservation Biology.* Gordon, M.S. and S. M. Bartol (eds). Berkeley. University of California Press, Ltd. pp 66-82.
- Southwood, A.L., Darveau, C.A., Jones, D.R. 2003. Metabolic and cardiovascular adjustments of juvenile green turtles to seasonal changes in temperature and photoperiod. *Journal of Experimental Biology* 206: 4521-4531.
- Southwood, A.L., Reina, R.D., Jones, V.S., and Jones, D.R. 2003. Seasonal diving patterns and body temperatures of juvenile green turtles at Heron Island, Australia. *Canadian Journal of Zoology* 81(6): 1014-1024.
- Southwood, A.L., Andrews, R.D., Lutcavage, M.E., Paladino, F.V., West, N.H., George, R. H., and Jones, D.R. 1999. Heart rates and diving behaviour of leatherback sea turtles in the Eastern Pacific Ocean. *Journal of Experimental Biology* 202:1115-1125.

### **Selected Presentations**

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2023	North Carolina Sea Turtle Symposium, Wilmington, NC. “ <i>Fisheries interactions with sea turtles</i> ”
2022	University of Central Florida Department of Biology Invited Speaker, Orlando, FL. “ <i>Osmoregulation in the estuarine diamond-backed terrapin</i> ”
2019	Eighth International Congress of Comparative Biochemistry and Physiology Ottawa, Canada “ <i>Osmoregulation in the diamondback terrapin: Behavioral vs. physiological strategies</i> ”

2017	International Sea Turtle Symposium, Las Vegas, NV "Oceanic overwintering in juvenile green turtles"
2016	Association of Southeastern Biologists, Concord, NC. "Effects of temperature on metabolism and osmotic balance of diamondback terrapins"
2014	American Society of Ichthyologists and Herpetologists, Chattanooga, TN. "Effects of temperature on metabolism and osmotic balance of diamondback terrapins"
2013	Annual Symposium on Sea Turtle Biology and Conservation, Baltimore, MD. "Temperature effects on the dive behavior of sea turtles", Invited.
2011	Annual Symposium on Sea Turtle Biology and Conservation, San Diego, CA. "Timing and pathways of fall migration for juvenile green sea turtles in Back and Core Sounds, NC"
2010	Auburn University, Auburn, AL. "Thermal biology of marine and estuarine turtles: from biochemistry to behavior"
2010	Hollings Marine Lab, Charleston, SC. "Biology & conservation of diamondback terrapins in southeastern North Carolina"
2010	Duke University Marine Laboratory, Beaufort, NC. "Biology and conservation of diamondback terrapins in southeastern North Carolina"
2010	Society for Integrative and Comparative Biology. Seattle, WA. "Blood biochemistry of sea turtles entangled in longline fishing gear"
2009	Planet Ocean Seminar Series. UNCW Center for Marine Science. "Diamonds in the Rough: Biology and conservation of diamondback terrapins"
2009	Joint Meeting of Ichthyologists and Herpetologists. Portland, OR. "Temperature effects on metabolic enzyme activity in diamondback terrapins"
2009	East Carolina University Department of Biology Seminar Series. Greenville, NC. "Turtle bycatch in coastal fisheries of North Carolina: Causes, consequences, and prevention"
2009	Keynote speaker at Old Dominion University, Dept. of Biology graduate student symposium. "Thermal biology of leatherback sea turtles"
2007	Seventh International Congress of Comparative Biochemistry and Physiology. Salvador, Brazil. "Physiology and behavior of migration in reptiles"
2007	University of New Hampshire, Durham, NH, USA "Thermoregulation in leatherback turtles"
2006	Duke University Marine Laboratory, Beaufort, NC, USA "Thermoregulation in leatherback turtles: to be hot or not?"
2005	Pacific Islands Fisheries Science Center, NOAA Fisheries, Honolulu, HI, USA "Seasonal effects on metabolism and behavior of green sea turtles"
2004	Department of Zoology, University of Hawaii, Honolulu, HI, USA "Thermal ecology of sea turtles: acclimatization, thermoregulation, and everything in between"
2004	55 <sup>th</sup> Annual Tuna Conference, Lake Arrowhead, CA, USA "Chemoreception in sea turtles: implications for interactions with fisheries"

### **Funded Proposals (external)**

2024 "Sea turtle nest monitoring on Figure Eight Island" Williard, A.S. Figure Eight Homeowners Association. Funded in the amount of \$19,719.

2024 "Fisher evaluations of narrow funnel design (NFD) pots in the North Carolina Commercial Blue Crab (*Callinectes sapidus*) Fishery" Williard, A.S. and Wilson, B.M. North Carolina Commercial Fishing Resource Fund. Funded in the amount of \$81,828.

2023 "Sea turtle nest monitoring on Figure Eight Island" Williard, A.S. Figure Eight Homeowners Association. Funded in the amount of \$19,214.

2022 "Incorporation of novel bycatch reduction technology in the North Carolina Commercial Blue Crab (*Callinectes sapidus*) Fishery" Williard, A.S. North Carolina Commercial Fishing Resource Fund. Funded in the amount of \$140,663.

2022 "Sea turtle nest monitoring on Figure Eight Island" Williard, A.S. Figure Eight Homeowners Association. Funded in the amount of \$19,893.

2020 "Assessment of the impact of gear modifications on diamondback terrapin and blue crab catch in the North Carolina commercial crab fishery". Williard, A.S. North Carolina Commercial Fishing Resource Fund. Funded in the amount of \$112,905.

2018 "Fisheries Bycatch Assessment at Sea Turtle Foraging Grounds in Colombia and Panama". Williard, A.S., Rodriguez Baron, J.M. National Fish and Wildlife Foundation. Funded in the amount of \$54,956.50.

2017 "Assessment of East Pacific Leatherback Turtle Bycatch Off the Coasts of Panama and Colombia". Williard, A.S., Rodriguez Baron, J.M. NOAA Pacific Islands Regional Office. Funded in the amount of \$27,000.

2016 "Assessment of fisheries interactions with East Pacific leatherback turtles at foraging grounds off the coasts of Colombia and Panama". Williard, A.S., Rodriguez Baron, J.M. NOAA Bycatch Reduction Engineering Program. Funded in the amount of \$110,119.

2016 "Estimating the effect of physiological status at boarding and attached monofilament on the post-release fates of loggerhead sea turtles (*Caretta caretta*) incidentally-hooked in the large pelagic longline fishery". James, M., Williard, A.S., Harvey-Clark, C., Stokes, L., Clark, K., Atkinson, T. Department of Fisheries and Oceans (Canada). Funded in the amount of \$387,100 CAD.

2014 "Blood biochemistry of sea turtles incidentally captured in the recreational hook-and-line fishery". Williard, A. S. North Carolina Sea Grant. Funded in the amount of \$4,800.

2012 "Assessment of diamondback terrapin presence and abundance in Bogue Sound, NC". Williard, A. S., Harden, L. A., Cluse, W., Wolfe, J. North Carolina Sea Grant. Funded in the amount of \$21,882.

2010 "Using Postcard surveys to investigate potential interactions between blue crab fisheries and diamondback terrapins in coastal North Carolina". North Carolina Sea Grant Minigrant. Funded in the amount of \$800.

2010 "The physiological basis of winter-induced stress and mortality in juvenile red drum". Scharf, F. and Southwood, A. North Carolina Sea Grant, omnibus funding for core research. Funded in the amount of \$41,449.

2010 "The physiological basis of winter-induced stress and mortality in juvenile red drum". Scharf, F. and Southwood, A. North Carolina Sea Grant, student stipend funding. Funded in the amount of \$12,500.

2010 "Sea turtle nesting activity on Masonboro Island, NC". Southwood, A. and Snider, A. North Carolina Coastal Reserve (DNER). \$8,064.

2009 "Timing and pathways of fall migrations for juvenile green sea turtles in Back, Core, and Pamlico Sounds, NC". Southwood, A. McNeill, J., and Willis, E. North Carolina Sea Grant, Fisheries Resource Grants. Funded in the amount of \$44,590.

2009 "Diamondback terrapin distribution and habitat utilization in the lower Cape Fear River: Request for Y2 funds". Southwood, A. and Wolfe, J. North Carolina Sea Grant, Blue Crab Research Program. Funded in the amount of \$43,998.

2009 "Sea Turtle Nesting Activity on Masonboro Island, NC". Southwood, A.L. North Carolina Coastal Reserve (NERR). Funded in the amount of \$5,801.

2008 "Diamondback terrapin distribution and habitat utilization in the lower Cape Fear River". Southwood, A. and Wolfe, J. North Carolina Sea Grant, Blue Crab Research Program. Funded in the amount of \$35,763.

2008 "Sea Turtle Nesting Activity on Masonboro Island, NC". Southwood, A.L. North Carolina Coastal Reserve (NERR). Funded in the amount of \$5,393.

2007 "Sea Turtle Nesting Activity on Masonboro Island, NC". Southwood, A.L. North Carolina Coastal Reserve (NERR). Funded in the amount of \$5,595.

2006 "Biochemical profiling of sea turtles incidentally captured during commercial longline fishing operations". Southwood, A.L. NOAA Pacific Islands Fisheries Science Center. Funded in the amount of \$18,470.

2006 "Health status, post-release behavior, and survivability of sea turtles incidentally captured in the gillnet fishery of the Lower Cape Fear River". Southwood, A.L. and Wolfe, J. North Carolina Sea Grant (FRG). Funded in the amount of \$100,418.

2006 "Leatherback turtle foraging habitat in the North Atlantic Ocean: Implications for fisheries interactions". Southwood, A.L. and Kirby, D. Large Pelagics Research Center (UNH). Funded in the amount of \$178,032.

2006 "Sea Turtle Nesting Activity on Masonboro Island, NC". Southwood, A.L. North Carolina Coastal Reserve (NERR). Funded in the amount of \$5,000.

### ***Scholarships and Awards***

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2022 Charles L. Cahill Award for Faculty Research and Development (\$4,882)  
University of North Carolina at Wilmington

2020 Distinguished Teaching Professorship (\$15,000)  
University of North Carolina Wilmington

2018 College of Arts and Sciences Pilot Grant Initiative (\$3,500)  
University of North Carolina at Wilmington

2015 College of Arts and Sciences Summer Writing Initiative (\$3,500)  
University of North Carolina at Wilmington

2011 Charles L. Cahill Award for Faculty Research and Development (\$3,000)  
University of North Carolina at Wilmington

2010 Academic Affairs Minigrants (\$741)  
University of North Carolina at Wilmington

2006 Charles L. Cahill Award for Faculty Research and Development (\$2,500)  
University of North Carolina at Wilmington

2006 Summer Research Initiative (\$3,500)  
University of North Carolina at Wilmington

1999 Proctor and Gamble Professional Opportunities Award (\$500)  
American Physiological Society

1998-2000 University Graduate Fellowship (\$36,000)  
University of British Columbia

1998 McLean Fraser Summer Research Fellowship (\$8,000)  
University of British Columbia

1996 Kit Malkin Award for Studies in Marine Science (\$1,000)  
University of British Columbia

1997 Archie Carr Award for Best Student Paper (\$300)  
17<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation

1994-1996 University Graduate Fellowship (\$33,000)  
University of British Columbia

1989 – 1992 Kincaid Academic Scholarship (\$8,000)  
University of Kentucky and Auburn University

### **Professional memberships**

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International Sea Turtle Society (Board Member 2022 – present)  
Diamondback Terrapin Working Group (Co-Chair 2016 - 2022)  
American Physiological Society  
Society for Integrative & Comparative Biology  
American Society of Ichthyologists & Herpetologists  
Society for the Study of Amphibians and Reptiles

### **Peer-Reviewer**

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Journal of Experimental Biology	Physiological and Biochemical Zoology
Journal of Animal Ecology	Journal of Experimental Marine Biology and Ecology
Biological Conservation	Comparative Biochemistry and Physiology
Endangered Species Research	Chelonian Conservation and Biology
Biological Reviews	Marine Ecology Progress Series
Scientific Reports	Frontiers in Marine Science