

# Katrina F. Phillips

## EDUCATION

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**Doctor of Philosophy - Integrative and Conservation Biology** 2022

University of Central Florida

Dissertation: *Mechanisms of juvenile dispersal and habitat connectivity in the sea turtle 'lost years'*

**Master of Science - Marine Affairs and Policy/Marine Biology and Fisheries** 2011

University of Miami Rosenstiel School of Marine and Atmospheric Science

Thesis: *Beyond the Beach: Population trends and foraging site selection of a Florida loggerhead nesting assemblage*

**Bachelor of Science - Marine Science, Minor in Biological Sciences** 2007

University of South Carolina Honors College

Honors Thesis: *The effects of cadmium on regeneration of the brittle star Amphipholis gracillima*

## PROFESSIONAL EXPERIENCE

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**Senior Marine Scientist I** 2025-present

Dauphin Island Sea Lab, Dauphin Island, AL

**Postdoctoral Researcher** 2023-2025

University of Massachusetts Amherst, Amherst, MA

**Graduate Teaching Assistant (BSC 2011, BSC 4927)** 2019-2022

University of Central Florida, Orlando, FL

**Sea Turtle Field Research and Internship Manager** 2014-2020

University of Central Florida, Melbourne Beach, FL

**Communications Specialist** 2012-2014

National Oceanic and Atmospheric Administration contract with Acentia/2020, Silver Spring, MD

**Sea Grant Knauss Fellow** 2011-2012

National Oceanic and Atmospheric Administration, Silver Spring, MD

**STEM Tutor and Graduate Research Assistant** 2008-2010

University of Miami Rosenstiel School of Marine and Atmospheric Science, Virginia Key, FL

**Sea Turtle Conservation Associate** 2009

Conservancy of Southwest Florida, Naples, FL

**Assistant Scientist** 2007-2008

Sea Education Association SEA Semester, Woods Hole, MA

**Sea Turtle Nesting Program Intern** 2007

University of South Carolina-Beaufort, Pritchards Island, SC

## PEER-REVIEWED PUBLICATIONS

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9. **Phillips KF**, NF Putman, KL Mansfield (2025) New insights on sea turtle behavior during the 'lost years'. *Proceedings of the Royal Society B* 292: 20242367
8. Ceriani SA, S Murasko, DS Addison, D Anderson, G Curry, NA Desjardin, SF Eastman, DR Evans, N Evou, MMPB Fuentes, MH Godfrey, KM Hart, P Hillbrand, SE Hirsch, CR Mott, KL Mansfield, KT Mazzarella, SV Norris, SM Pate, **KF Phillips**, KW Rusenko, BM Shamblin, A Stevenson, KA Sloan, AD Tucker, RC Welsh, P Casale (2023) Monitoring population-level foraging distribution of a marine migratory species from land: strengths and weaknesses of the isotopic approach on the Northwest Atlantic loggerhead turtle aggregation. *Frontiers in Marine Science* 10: 1189661
7. **Phillips KF**, KR Martin, GD Stahelin, AE Savage, KL Mansfield (2022) Genetic variation among sea turtle life stages and species suggests connectivity among ocean basins. *Ecology and Evolution* 12: e9426 [cover paper]

6. **Phillips KF**, GD Stahelin, RM Chabot, KL Mansfield (2021) Long-term trends in marine turtle size at maturity at an important Atlantic rookery. *Ecosphere* 12(7): e03631 [cover paper]
5. **Phillips KF**, DS Addison, CR Sasso, KL Mansfield (2021) Postnesting migration routes and fidelity to foraging sites among loggerhead turtles in the western North Atlantic. *Bulletin of Marine Science* 97(1): 1-18
4. Orfinger AB, TB Cogen, GR Irons, KV Kabilan, B Molligoda, AL Moody, JF Wisdo, **KF Phillips** (2017) Preliminary study of pan trapping in longleaf pine flatwoods in Central Florida, USA. *Midsouth Entomologist* 10: 24-27
3. Vander Zanden HB, AB Bolten, AD Tucker, KM Hart, MM Lamont, I Fujisaki, KJ Reich, DS Addison, KL Mansfield, **KF Phillips**, M Pajuelo, KA Bjorndal (2016) Biomarkers reveal sea turtles remained in oiled areas following the *Deepwater Horizon* oil spill. *Ecological Applications* 26(7): 2145–2155
2. Vander Zanden HB, AD Tucker, KM Hart, MM Lamont, I Fujisaki, DS Addison, KL Mansfield, **KF Phillips**, MB Wunder, GJ Bowen, M Pajuelo, AB Bolten, KA Bjorndal (2015) Determining origin in a migratory marine vertebrate: a novel method to integrate stable isotopes and satellite tracking. *Ecological Applications* 25(2): 320-335
1. **Phillips KF**, KL Mansfield, DS Addison, DJ Die (2014) Survival and remigration probabilities for loggerhead turtles (*Caretta caretta*) nesting in the eastern Gulf of Mexico. *Marine Biology* 161: 863-870

#### ADDITIONAL PUBLICATIONS

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7. Lettrich MD, **KF Phillips**, C Clyde-Brockway, BP Bentley (eds.) (2024) Report of a Workshop to Assess Impacts of Climate Change on Sea Turtle Threats. NOAA Technical Memorandum NMFS-F/SPO-249, 33 p
6. **Phillips KF** (2023) Are sea turtles getting smaller? *State of the World's Sea Turtles Report* 18: 16-17
5. **Phillips KF** (2022) Juvenile dispersal and genetic connectivity in the sea turtle 'lost years'. *Electronic Theses and Dissertations, 2020-*. Paper 1428
4. **Phillips KF** (2018) Sea turtle dispersal in marine habitats. *Tracker News* 19(1): 3,6
3. **Phillips KF** (2017) Juvenile sea turtles and marine protected areas in the Gulf of Mexico. *ArgosForum* 84: 4-5
2. **Phillips KF** (2011) Beyond the Beach: Population trends and foraging site selection of a Florida loggerhead nesting assemblage. *Open Access Theses*. Paper 245
1. **Phillips KF** (2011) NOAA Research Innovation: Improving the accuracy of ocean temp probes for climate research. *Marine Technology Reporter* 54(7): 34-35

#### RESEARCH GRANTS AND FELLOWSHIPS

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National Science Foundation Postdoctoral Research Fellowship in Biology (\$138,000)	2023-2024
University of Central Florida Graduate Studies Open Access Publishing (\$3,000)	2021, 2022
P.E.O. Scholar Award (\$15,000)	2019
University of Central Florida Order of Pegasus (\$750)	2019
University of Central Florida Graduate Presentation Fellowship (\$3,200)	2015, 2016, 2018, 2020
NSF Graduate Research Opportunities Worldwide (\$5,000 & 27,000 DKK)	2018
Gumbo Limbo Gordon Gilbert Grant (\$2,500)	2017
Microwave Telemetry Christiane Howey Rising Scholar Award (\$16,000 in hardware)	2016
National Science Foundation Graduate Research Fellowship (\$138,000)	2015-2020
University of Central Florida Boyd Lyon Memorial Fellowship (\$36,000)	2014-2016
NOAA Sea Grant John A Knauss Marine Policy Fellowship (\$46,000)	2011

#### PROFESSIONAL PRESENTATIONS

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##### Oral Presentations

24. **Phillips KF**, NF Putman, KL Mansfield (2025) New insights on sea turtle behaviour during the 'lost years'. Invited seminar speaker: Royal Society Publishing Ecology and Evolution seminar series. <https://doi.org/10.52843/cassyni.23zwhd>
23. **Phillips, KF** (2025) Ocean Odysseys: Integrating spatial and molecular approaches to guide sea turtle conservation. Invited seminar speaker: Dauphin Island Sea Lab, Dauphin Island, AL
22. **Phillips KF**, NF Putman, KL Mansfield (2025) New insights on 'lost years' sea turtle dispersal in the Gulf of Mexico. Southeast Regional Sea Turtle Meeting, Hilton Head, SC

21. **Phillips KF** (2024) Ocean Odysseys: Understanding long-distance migration through a sea turtle study system. Invited seminar speaker: Organismic and Evolutionary Biology Program, University of Massachusetts Amherst, Amherst, MA
20. **Phillips KF** (2024) Marine turtle migratory ecology and conservation. Invited seminar speaker: Department of Environmental Conservation, University of Massachusetts Amherst, Amherst, MA
19. **Phillips KF** (2024) Juvenile dispersal & genetic connectivity in the sea turtle 'lost years'. Florida RESTORE Act Centers of Excellence Program All Hands Meeting, St. Petersburg, FL
18. **Phillips KF**, NF Putman, KL Mansfield (2023) 'Lost years' sea turtle dispersal in the Gulf of Mexico. 41<sup>st</sup> Annual Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia [Best student oral presentation, Biology category]
17. **Phillips KF**, KR Martin, GD Stahelin, AE Savage, KL Mansfield (2022) Exploring the genetics of 'lost years' sea turtles in the Gulf of Mexico. 40<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Perth, Australia [held virtually]
16. **Phillips KF**, KL Mansfield (2022, *abstract accepted but conference postponed*) Oceanic juvenile sea turtles in the Northeastern Gulf of Mexico. Southeast Regional Sea Turtle Meeting, Orange Beach, FL
15. **Phillips KF**, KL Mansfield (2020, *abstract accepted but conference canceled*) Juvenile dispersal and habitat connectivity in the sea turtle 'lost years'. 40<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia
14. **Phillips KF**, KL Mansfield (2020) Space-use patterns among surface-pelagic juvenile sea turtles in the Gulf of Mexico. Gulf of Mexico Oil Spill and Ecosystem Science Conference, Tampa, FL
13. **Phillips KF**, KL Mansfield (2019) Juvenile sea turtle dispersal in the northwestern Atlantic. Gulf Stream Ecology and Environment Workshop, Wanchese, NC
12. **Phillips KF**, DS Addison, CR Sasso, KL Mansfield (2019) Loggerhead inter-nesting movements, migratory routes, and foraging sites in the Gulf of Mexico. 39<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Charleston, SC
11. **Phillips KF** (2018) Juvenile dispersal and habitat connectivity in the sea turtle 'lost years'. Invited seminar speaker: Department of Zoology, University of Oxford, England
10. **Phillips KF** (2018) Juvenile dispersal and habitat connectivity in the sea turtle 'lost years'. Invited seminar speaker: Center for Macroecology, Evolution, and Climate, University of Copenhagen, Denmark
9. **Phillips KF**, KL Mansfield (2017) Assessing oceanic juvenile sea turtle movements in the context of Marine Protected Areas in the Gulf of Mexico. 37<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV
8. **Phillips KF**, KL Mansfield, DS Addison (2015) A comparative analysis of loggerhead foraging habitats and individual reproductive history. Southeast Regional Sea Turtle Meeting, Jekyll Island, GA
7. **Phillips KF**, KL Mansfield, DS Addison (2014) Long-term reproductive histories and satellite telemetry provide insight into foraging site selection among loggerheads nesting in the Gulf of Mexico. 34<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, New Orleans, LA
6. **Phillips KF** (2014) Monitoring Sea Turtles Beyond the Beach. Invited seminar speaker, Savannah State University, Savannah, GA
5. **Phillips KF**, DS Addison (2012) Three years of telemetry data reveal common loggerhead foraging areas. Southeast Regional Sea Turtle Meeting, Jekyll Island, GA
4. **Phillips KF** (2011) Presentation of Master's thesis research. Knauss Brown Bag Seminar Series, NOAA Central Library, Silver Spring, MD
3. **Phillips KF** (2011) Beyond the Beach: Population trends and foraging site selection of a loggerhead nesting assemblage. 31<sup>st</sup> Annual Symposium on Sea Turtle Biology and Conservation, San Diego, CA
2. **Phillips KF** (2010) Presentation of Master's research. NOAA Southeast Fisheries Science Center, Miami, FL
1. **Phillips KF** (2010) Protecting loggerhead turtle habitats: An inconvenient truth. Student Conference on Conservation Science, Museum of Natural History, New York, NY

#### *Poster Presentations*

11. **Phillips KF**, SA Ceriani, J Adkins, KL Mansfield, DS Addison, BM Shamblin, LM Komoroske (2024) Identifying molecular mechanisms of marine turtle migratory phenotypes. 3<sup>rd</sup> Joint Congress on Evolutionary Biology, Montréal, Canada
10. **Phillips KF**, LM Komoroske (2023) Investigating the molecular mechanisms of marine turtle migration. Ecological and Evolutionary Genomics Gordon Research Conference and Seminar, Smithfield, RI

9. **Phillips KF**, KL Mansfield (2018) Genetic composition and tracked movements of oceanic-stage green turtles in the Gulf of Mexico. 38<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Kobe, Japan
8. **Phillips KF**, KL Mansfield (2017) Combining satellite tracking and genetics to characterize oceanic juvenile sea turtle habitat use. 6<sup>th</sup> International Bio-logging Science Symposium, Lake Constance, Germany
7. **Phillips KF**, RM Chabot, KL Mansfield (2016) Ontogenetic shifts in sea turtle habitat use and foraging ecology: preliminary stable isotope and satellite telemetry results. Florida RESTORE Act Centers of Excellence Program All Hands Meeting, St. Petersburg, FL [Awarded fourth place among student posters]
6. **Phillips KF**, KL Mansfield (2016) Estimating survival and encounter rates at a high density loggerhead nesting beach. 36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Lima, Peru
5. **Phillips KF**, KL Mansfield (2016) Good news or bad news? A shift in nesting female size among loggerheads in the Archie Carr National Wildlife Refuge. Southeast Regional Sea Turtle Meeting, Mobile, AL
4. **Phillips KF**, KL Mansfield (2015) Has the size at maturity changed over time among Atlantic loggerheads? 35<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Dalaman, Turkey
3. **Phillips KF**, DS Addison (2010) Loggerhead remigration analysis: Implications for foraging ground management. 30<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Goa, India
2. **Phillips KF** (2007) The effects of cadmium on regeneration of the brittle star *Amphipholis gracillima*. University of South Carolina Discovery Day, Columbia, SC [Awarded first place in Biological Sciences]
1. **Phillips KF**, CR Benitez-Nelson, M Henry (2006) ScienceQuest – A science experience for at-risk middle school children. South Carolina Marine Educators Association Conference, Seabrook Island, SC

*Contributing Author* (\* denotes mentored undergraduate student)

13. Larsen M, K Mansfield, **K Phillips** (2024) Decoding the mysterious distribution patterns of juvenile green turtles during their "lost years" through the application of species distribution modeling. 42<sup>nd</sup> Annual Symposium on Sea Turtle Biology and Conservation, Pattaya, Thailand (oral presentation)
12. Dawson TM, SP Bornheim, **KF Phillips**, KL Mansfield (2023) Inferring habitat use and foraging ecology during sea turtle "lost years" using stable isotope analysis. 41<sup>st</sup> Annual Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia (oral presentation)
11. \*Provenzano JP, **KF Phillips**, EE Seney, KL Mansfield (2020, *abstract accepted but conference canceled*) Sea turtle nesting behavior and incubation duration in response to increasing storm severity. 40<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia (poster)
10. Martin KR, AL Trujillo, **KF Phillips**, KL Mansfield, AE Savage (2020, *abstract accepted but conference canceled*) Gene expression in Gulf of Mexico *Chelonia mydas* oceanic stage juveniles. 40<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Cartagena, Colombia (poster)
9. Dawson T, S Ceriani, R Chabot, J Kelley, **K Phillips**, K Mansfield (2019) Examining the green and Kemp's ridley sea turtle "lost years" using stable isotope analysis. 39<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Charleston, SC (oral presentation)
8. \*Carmichael A, **K Phillips**, C Long, E Seney, K Mansfield (2018) Impact of sympatric green sea turtle and loggerhead nesting on a high density beach. 38<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Kobe, Japan (poster)
7. Stahelin GD, **KF Phillips**, RM Chabot, KL Mansfield (2017) Variation in loggerhead and green turtle size at maturity on the central Florida east coast. 37<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV (poster)
6. \*Tackett M, **K Phillips**, G Stahelin, K Mansfield (2017) Prime Real Estate: Nest placement and its effects on hatching success in loggerhead and green sea turtles. 37<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV (poster)
5. \*Burandt K, G Stahelin, **K Phillips**, J Kelley, K Mansfield (2017) How does nourished sand affect reproductive success of loggerhead sea turtles? 37<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV (poster)
4. Addison DS, KL Mansfield, **KF Phillips** (2017) Frequency of occurrence, foraging areas, and reproductive histories of loggerhead turtles that nested on successive years on Keewaydin Island, Florida, USA. 37<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Las Vegas, NV (oral presentation)
3. Addison DS, **KF Phillips**, KL Mansfield, M Doolin (2016) Reproductive histories and satellite tracks of loggerhead turtles that nested in consecutive years on Keewaydin Island, FL. Southeast Regional Sea Turtle Meeting, Mobile, AL (oral presentation)

2. Stahelin GD, **KF Phillips**, KL Mansfield (2016) Juvenile green turtle (*Chelonia mydas*) survival rates at Trident Basin, FL, USA. 36<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, Lima, Peru (poster)
1. Vander Zanden HB, AD Tucker, KM Hart, MM Lamont, I Fujisaki, DS Addison, KL Mansfield, **KF Phillips**, M Pajuelo, MB Wunder, GJ Bowen, AB Bolten, KA Bjorndal (2014) Determining foraging area origin with stable isotope analysis and satellite tracking for loggerheads nesting in the Gulf of Mexico. 34<sup>th</sup> Annual Symposium on Sea Turtle Biology and Conservation, New Orleans, LA (oral presentation)

#### LEADERSHIP AND VOLUNTEER POSITIONS

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<b>University of Massachusetts Amherst</b> Diversity, Equity, and Inclusion committee; Organismic and Evolutionary Biology program	2023-2025
<b>International Sea Turtle Society</b> Co-Program Chair for the 42 <sup>nd</sup> Annual Meeting held in Pattaya, Thailand (March 2024) and 43 <sup>rd</sup> Annual Meeting held in Accra, Ghana (March 2025)	2023-2025
<b>University of Central Florida Biology Graduate Student Association</b> President (2015-2016), Faculty Liaison (2017-2018)	2014-2022
<b>Biology Integrated Orlando Training and Enrichment Camp (BIOTEC)</b> Instructor: Ecology and Animal Behavior	2016- 2018
<b>DC EcoWomen Executive Board</b> Vice President of Membership (2012-2014), Programs Committee (2011-2012)	2011-2014
<b>Port of Miami Propeller Club Student Chapter</b> Vice President (2010), Secretary (2009-2010)	2009-2010
<b>University of Miami Marine Science Graduate Student Organization</b> Division Representative for Marine Affairs and Policy	2009-2010
<b>ScienceQuest</b> Volunteer Educator	2006

#### PROFESSIONAL SERVICE AND ACTIVITIES

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**Journal Reviews:** Proceedings of the National Academy of Sciences, Marine Biology, Endangered Species Research, Herpetological Conservation & Biology

**Review Panels:** Sea Grant Knauss Fellowship

**Workshop Facilitation:** “Applications of sea turtle reference genomes for research and conservation management”; “The Climate-Threats Matrix: Understanding and quantifying the interactions of cumulative stressors with climate change and the resulting impacts on sea turtles”

**Society Memberships:** Society for the Study of Evolution, Society for Integrative and Comparative Biology, International Bio-logging Society, International Sea Turtle Society