

## James W. Morley

Department of Ecology, Evolution and Natural Resources  
Rutgers University  
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### EDUCATION

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**North Carolina State University.** Ph.D. Zoology, 2013. Advisor: Jeffrey A. Buckel  
Dissertation: *Overwintering ecology of two intra-annual cohorts of juvenile bluefish and their relative importance to the adult population*

**North Carolina State University.** M.S. Fisheries and Wildlife Science, 2004. Advisor: Jeffrey A. Buckel. Thesis: *Ecology of juvenile bluefish (*Pomatomus saltatrix*) overwintering off North Carolina*

**State University of New York at Cortland.** B.S. Biology, 2000. Graduated Cum Laude

### PROFESSIONAL EXPERIENCE

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**Postdoctoral Associate** 2015 — Present  
Rutgers University. Impact of climate change and variability on marine fish and fisheries

**Summer Faculty** 2013 — 2015  
Instructor at Dauphin Island Sea Lab, AL.

**Adjunct Faculty** 2013 — 2014  
Instructor at Craven Community College, New Bern, NC.

**Fisheries Biologist** 2013 — 2014  
Project conducted with fisherman to test the bycatch efficiency of a novel gear.

**Laboratory Specialist** 2010 — 2011  
Analyzing tissue for proximate molecular composition. Contracts with NMFS at Woods Hole and University of Delaware.

**Graduate Research Assistant** 2002 — 2010  
North Carolina State University. Chief scientist on trawl (93 days at sea) and beach seine (70 sampling days) surveys.

### TEACHING AND MENTORING

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**Instructor**

<i>Marine Vertebrate Zoology</i> ; Dauphin Island Sea Lab	2013, 2014, 2015
<i>Principles of Biology</i> ; Craven Community College	2014
<i>Environmental Biology</i> ; Craven Community College	2013
<i>General Biology I</i> ; Craven Community College	2013

**NCSU Preparing Future Leaders Program** 2011 — 2012  
Attended six workshops on effective teaching practices

**Hutton Junior Fisheries Biology Program Mentor** 2006  
Coordinated through American Fisheries Society. Mentored a local high school student.

**Educational Outreach** 2003 — 2011  
Led two educational activities per year as part of the Center for Marine Sciences and Technology (CMAST) Outreach Program

**Laboratory Instructor** 2001  
*Animal Diversity*; North Carolina State University

## PROFESSIONAL SERVICE

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- Climate Variability and Fisheries Technical Working Group, South Atlantic Fishery Management Council, 2015-2016
- Seminar Series Coordinator, Center for Marine Sciences and Technology, 2010-11
- Peer Review  
Journals: Environmental Biology of Fishes; Fisheries Oceanography; Journal of Experimental Marine Biology and Ecology; Marine Ecology Progress Series (2); Transactions of the American Fisheries Society; Freshwater Biology

## AWARDS AND ACHIEVEMENTS

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- Best Student Presentation Award – AFS Tidewater Meeting (2012)
- Dale Ward Scholarship, \$1,000 – Raleigh Saltwater Sportfishing Club (2006)
- George Breen Award for Outstanding Athletic and Scholastic Achievement (1999)
- Tri-Beta National Honor Society (1999)
- National Aquatic Service, Advanced Open Water SCUBA w/ Dry Suit and Rescue (1999)
- SUNY Cortland Swim Team (1995-1999); Team Captain (1998-99)

## GRANTS

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Fodrie FJ, Morley JW, McGlade K, Poray AK (2016) North Carolina Sea Grant  
\$150,000 awarded, “Effects of oyster grow-out cages on the condition and ecosystem services of seagrass communities”

Seigler KM, Morley JW (2013) North Carolina Sea Grant, Fishery Resource Grant  
\$14,500 awarded, “Lampara seine: alternative fishing opportunities”

## PUBLICATIONS

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Morley JW, Buckel JA, Lankford TE (*in prep*) The influence of winter climate variability on migration phenology and feeding of juvenile bluefish.

- Morley JW, Batt RD, Pinsky ML (*in review*) Marine assemblages respond rapidly to winter climate variability. *Global Change Biology*
- Morley JW, Buckel JA (2014) Effects of temperature and prey size on predator-prey interactions between bluefish and bay anchovy. *Journal of Experimental Marine Biology and Ecology* 461:449-457
- Morley JW, Buckel JA, Lankford TE (2013) Relative contribution of spring- and summer-spawned bluefish cohorts to the adult population: effects of size-selective winter mortality, overwinter growth, and sampling bias. *Canadian Journal of Fisheries and Aquatic Sciences* 70:233-244
- Morley JW, Buckel JA, Lankford TE (2012) Comparing multiple predictors of energy content in juvenile bluefish. *Transactions of the American Fisheries Society* 141:1109-1116
- Wuenschel MJ, Able KW, Buckel JA, Morley JW, Lankford T, Branson AC, Conover DO, Drisco D, Jordaan A, Dunton K, Secor DH, Woodland RJ, Juanes F, Stormer D (2012) Recruitment patterns and habitat use of young-of-the-year bluefish along the United States east coast: insights from coordinated coastwide sampling. *Reviews in Fisheries Science* 20:80-102
- Morley JW, Buckel JA, Lankford TE (2007) Winter energy storage dynamics and cohort structure of young-of-the-year bluefish *Pomatomus saltatrix* off North Carolina. *Marine Ecology Progress Series* 334:273-286

## REPORTS

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- Morley JW, Pinsky ML (2016) Climate impact projections for U.S. fisheries. Summary report for The Pew Charitable Trusts. 6p.
- Morley JW, Seigler KM (2014) Alternative fishing opportunities for white shrimp and menhaden: testing the efficiency of the lampara seine. NC Sea Grant. Fishery Resource Grant. Report #: 13-FEG-03. 20p.

## PRESENTATIONS AND SEMINARS

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24. Morley JW, Batt RD, Pinsky ML (2016) Responses of marine taxa to climate variability in the southeast U.S. (poster). *Ocean Sciences Meeting, New Orleans, LA*
23. Batt RD, Morley JW, Selden RL, Tingley MW, Pinsky ML (2016) Evaluating temperature as a driver of changing coastal biodiversity (poster). *Ocean Sciences Meeting, New Orleans*
22. Selden RL, Batt RD, Morley JW, Pinsky ML (2016) The influence of predator-prey interactions on climate induced range shifts in marine communities. *Ocean Sciences Meeting, New Orleans, LA*

21. Griffis RB, Pinsky M, Hare J, Batt RD, Morley JW (2016) OceanAdapt: open data for an ocean on the move. *Species on the Move International Conference, Hobart, Tasmania*
20. Morley JW, Pinsky ML (2015) Are distributions of marine taxa off the southeast U.S. responding to climate change (poster). *Application of Seasonal to Decadal Climate Predictions for Marine Resource Management Workshop, Princeton University, NJ*
19. Morley JW, Link JS, Hartig B (2015) The role of citizen and ecosystem science in advancing our understanding of south Atlantic fisheries. *Public discussion panel hosted by Pew Charitable Trusts. South Atlantic Fishery Management Council meeting, St. Simons Island, GA*
18. Morley JW (2014) Overwintering ecology of juvenile bluefish: solving a cohort contribution conundrum. *Invited seminar, Rutgers University, NJ*
17. Morley JW (2014) The evolution and diversity of fishes. *Invited speaker, Carteret Community College*
16. Morley JW (2013) Estimating the importance of different intra-annual cohorts of bluefish to the adult population and the influence of winter mortality. *Invited seminar, SUNY Oswego, NY*
15. Morley JW, Buckel JA, Lankford TE (2012) The relative contribution of spring- and summer-spawned bluefish to the adult population: effects of size-selective mortality, overwinter growth, and sampling bias. *ICES annual meeting, Bergen, Norway*
14. Morley JW, Buckel JA, Lankford TE (2012) The relative contribution of spring- and summer-spawned bluefish to the adult population and the influence of size-selective winter mortality. *AFS Tidewater Chapter meeting, Beaufort, NC*
13. Morley JW, Buckel JA, Lankford TE (2008) Fate of summer-spawned bluefish during winter. *AFS national meeting, Ottawa, Ontario*
12. Morley JW, Buckel JA, Lankford TE (2007) Fate of summer-spawned bluefish during winter. *AFS national meeting, San Francisco, CA*
11. Morley JW, Branson AC, Buckel JA, Lankford TE (2007) Recruitment patterns of juvenile bluefish in North Carolina (poster). *AFS national meeting, San Francisco, CA*
10. Morley JW, Branson AC, Buckel JA, Lankford TE (2007) Recruitment patterns of juvenile bluefish in North Carolina (poster). *AFS Tidewater Division meeting, DE*
9. Branson AC, Lankford TE, Morley JW, Buckel JA (2006) Surf-zone fish assemblages at Wrightsville Beach, North Carolina: short-term responses to beach renourishment (poster). *American Society of Ichthyologists and Herpetologists, LA*
8. Branson AC, Lankford TE, Morley JW, Buckel JA (2006) Fish assemblage structure of ocean surf-zone habitat at Wrightsville Beach, North Carolina (poster). *AFS Tidewater Division meeting, Wilmington, NC*
7. Buckel JA, Lankford TE, Morley JW (2005) Spiny dogfish abundance, size, and reproductive condition in southeastern North Carolina. *NC Marine Fisheries Commission, Washington, NC*
6. Morley JW, Buckel JA, Lankford TE (2005) Energy dynamics of young-of-the-year bluefish overwintering off North Carolina: the role of feeding and temperature. *ERF national meeting, Norfolk, VA*
5. Morley JW, Buckel JA, Lankford TE (2005) Energy dynamics of young-of-the-year bluefish overwintering off North Carolina: the role of temperature and prey availability. *AFS national meeting, Anchorage, AK*
4. Morley JW, Buckel JA, Lankford TE (2003) Overwintering young-of-the-year bluefish: cohort structure, feeding & energetics. *AFS national meeting, Quebec City, Canada*

3. Morley JW, Buckel JA, Lankford TE (2003) Size-selective winter mortality of young-of-the-year bluefish. *NCSU zoology graduate student symposium, Raleigh, NC*
2. Morley JW, Buckel JA, Lankford TE (2003) Winter distribution, ecology, & energetics of young-of-the-year bluefish in the South Atlantic Bight. *AFS Southern Division meeting, Wilmington, NC*
1. Morley JW, Buckel JA, Lankford TE (2002) Winter distribution, ecology, & energetics of young-of-the-year bluefish in the South Atlantic Bight. *AFS national meeting, Baltimore, MD*