

## **JOEL K. LLOPIZ**

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Biology Department  
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### **EDUCATION**

- 2008 University of Miami/RSMAS, Miami, FL  
Ph.D. in Marine Biology and Fisheries (Advisor: Robert Cowen)  
2000 Eckerd College, St. Petersburg, FL  
B.S. in Marine Science, Biology Track

### **PROFESSIONAL APPOINTMENTS**

- 2012–present Assistant Scientist, Woods Hole Oceanographic Institution (tenure-track faculty)  
2011–2013 Instructor, Massachusetts Marine Studies Consortium  
2010–2012 Postdoctoral Scholar, Woods Hole Oceanographic Institution (Advisors: Carin Ashjian and Simon Thorrold)  
2008–2010 Postdoctoral Associate, University of Miami/RSMAS (Advisors: Su Sponaugle and Robert Cowen)  
2007–2008 Graduate Research Assistant, University of Miami/RSMAS  
2005–2006 Graduate Teaching Assistant, University of Miami/RSMAS  
2002–5, 2007 Graduate Research Fellow, University of Miami/RSMAS  
2001–2002 Fisheries Biologist, Florida Fish and Wildlife Research Institute  
2000–2001 Research Technician, Florida Fish and Wildlife Research Institute

### **AWARDS**

- 2016–2018 CINAR Fellow in Quantitative Fisheries and Ecosystem Science  
2010–2012 WHOI/CINAR institution-funded Postdoctoral Scholar  
2010 Best early-career scientist award, IMBER Imbizo II, Crete, Greece  
2010 NSF travel award to attend IMBER Imbizo II  
2010 NSF travel award to attend Larval Fish Conference, Santa Fe, NM  
2008–2009 F.G. Walton Smith Prize for best RSMAS dissertation  
2007 Harding Michel Memorial Fellowship  
2004 & 2005 Capt. Harry Vernon, Jr. Memorial Scholarship Award  
2004 Capt. Bob Lewis Billfish Challenge Scholarship Award  
2002–2005 NOAA/LMRCSC Fellowship

### **GRANTS**

- 2016–2019 NSF, co-PI with Irina Rypina, Ke Chen, and Larry Pratt, “Physical and biological exchange processes and Lagrangian pathways between deep ocean and shelf regions of the Northwestern Atlantic (\$772,970)”  
2015–2018 NSF, co-PI with Aran Mooney and Amy Apprill, “Coral Chorus: The Role of Soundscapes in Coral Reef Larval Recruitment and Biodiversity” (\$890,180)  
2015–2017 Phoenix Islands Protected Area Trust, co-PI with Randi Rotjan, Jan Witting, and Simon Thorrold, “Larval tuna research in the Phoenix Islands Protected Area” (\$108,128)

- 2015–2017 NOAA FATE, co-PI with David Richardson and Michael Palmer, “Is Atlantic Cod and Haddock Recruitment Influenced by the Planktonic Environment and Feeding Success during the Larval Stage?” (\$116,021)
- 2015–2017 Davis Foundation, co-PI with Amanda Spivak, “Biogeochemical effects of anadromous herring on lake ecosystems” (\$7,500)
- 2014–2016 WHOI Interdisciplinary Award, co-PI with Amanda Spivak, “Impacts of anadromous herring on lake metabolism and sediment biogeochemistry: A natural experiment afforded by dam removal” (\$97,543)
- 2014–2016 Woods Hole Sea Grant, PI, with John Sheppard and Ben Gahagen (MA DMF), “Beyond fish passage: variability in nursery habitat and its influence on the feeding, growth, and survival of the early life stages of river herring” (\$117,214)
- 2013–2015 WHOI Ocean Life Institute, PI, “Is cannibalism really an evolved strategy of bluefin tuna larvae?” (\$53,865)
- 2013–2015 NSF, PI, “Novel approaches to better understanding the trophic role of small pelagic fishes and their critical link between the plankton and higher trophic levels” (\$99,905)
- 2013–2014 NOAA, co-PI with Barbara Muhling (RSMAS), “Accounting for the influence of feeding success on the growth and survival of bluefin tuna larvae in stock assessment efforts” (\$102,998)
- 2012–2014 Sea Grant, co-PI with Simon Thorrold (WHOI), “Investigating decadal-scale changes at the base of the Georges Bank food web through the use of compound-specific stable isotope analyses of haddock scales” (\$140,000)

#### **PEER-REVIEWED PUBLICATIONS**

- In prs DeVanna Fussell KM, REH Smith, ME Fraker, L Boegman, KT Frank, TJ Miller, JT Tyson, KK Arend, D Boisclair, OP Jensen, **JK Llopiz**, CJ May, RG Najjar, LG Rudstam, CT Taggart, YR Rao, SA Ludsin. A perspective on needed research, modeling, and management approaches that can enhance Great Lakes fisheries management under changing conditions. *Journal of Great Lakes Research*
- 2015 Braun CD, MB Kaplan, AZ Horodysky, **JK Llopiz**. Satellite telemetry reveals physical processes driving billfish behavior. *Animal Biotelemetry* 3: 2
- 2015 Pepin P, D Robert, C Bouchard, JE Dower, M Falardeau, L Fortier, GP Jenkins, V Leclerc, K Levesque, **JK Llopiz**, MG Meekan, HM Murphy, M Ringuette, P Sirois, S Sponaugle. Once upon a larva: Revisiting the relationship between feeding success and growth in fish larvae. *ICES Journal of Marine Science* 72: 359-373
- 2015 **Llopiz JK**, AJ Hobday. A global comparative analysis of the feeding dynamics and environmental conditions of larval tunas, mackerels, and billfishes. *Deep Sea Research II* 113: 113-124
- 2015 Young JW, BPV Hunt, T Cook, **JK Llopiz**, E Hazen, H Pethybridge, D Ceccarelli, A Lorrain, RJ Olson, V Allain, C Menkes, T Patterson, S Nicol, P Lehodey, R Kloser, H Arrizabalaga, CA Choy. The trophodynamics of marine top predators: Current knowledge, recent advances, and challenges. *Deep Sea Research II* 113: 170-187
- 2014 **Llopiz JK**, RK Cowen, MJ Hauff, R Ji, PL Munday, BA Muhling, MA Peck, DE Richardson, S Sogard, S Sponaugle. Early life history and fisheries oceanography: New questions in a changing world. *Oceanography* 27(4): 26-41
- 2014 Rypina II, **JK Llopiz**, LJ Pratt, MS Lozier. Dispersal pathways of American eel larvae

- from the Sargasso Sea. *Limnology and Oceanography* 59: 1704-1714
- 2013 Leis JM, JE Caselle, IR Bradbury, T Kristiansen, **JK Llopiz**, MJ Miller, MI O'Connor, CB Paris, AL Shanks, SM Sogard, SE Swearer, EA Trembl, R Vetter, RR Warner. Does fish larval dispersal differ between high and low latitudes? *Proceedings of the Royal Society B* 280: 20130327
- 2013 **Llopiz JK**. Latitudinal and taxonomic patterns in the feeding dynamics of fish larvae: A literature synthesis. *Journal of Marine Systems* 109-110: 69-77
- 2012 Peck MA, KB Huebert, **JK Llopiz**. Intrinsic and extrinsic factors driving match-mismatch dynamics during the early life history of marine fishes. *Advances in Ecological Research* 47: 177-302
- 2011 D'Alessandro EK, S Sponaugle, **JK Llopiz**, RK Cowen. Larval ecology of the great barracuda, *Sphyraena barracuda*, and other sphyraenids in the Straits of Florida. *Marine Biology* 158: 2625-2638 (feature article)
- 2010 Clasen JL\*, **JK Llopiz\***, CEH Kissman, D Marshalonis, DL Pascual. The vulnerability of ecosystem trophic dynamics to anthropogenically induced environmental change: A comparative approach, p. 47-66. In P.F. Kemp [ed.], *Eco-DAS VIII Symposium Proceedings*, ASLO (\*contributed equally)
- 2010 Keister JE, DL Pascual, JL Clasen, KN Hopfensperger, N Kelly, **JK Llopiz**, SM Moseman, L Petes. Climate and anthropogenic change in aquatic environments: A cross-ecosystem perspective, p. 1-16. In P.F. Kemp [ed.], *Eco-DAS VIII Symposium Proceedings*, ASLO
- 2010 Richardson DE, **JK Llopiz**, CM Guigand, RK Cowen. Larval assemblages of large and medium sized pelagic species. *Progress in Oceanography* 86: 8-20
- 2010 **Llopiz JK**, DE Richardson, A Shiroza, SL Smith, RK Cowen. Distinctions in the diets and distributions of larval tunas and the important role of appendicularians. *Limnology and Oceanography* 55: 983-996
- 2010 Sponaugle S, KD Walter, K Denit, **JK Llopiz**, RK Cowen. Variation in pelagic larval growth of Atlantic billfishes: The role of prey composition and selective mortality. *Marine Biology* 157: 839-849
- 2009 Lowerre-Barbieri SK, N Henderson, **JK Llopiz**, S Walters, J Bickford, R Muller. Defining a spawning population (spotted seatrout *Cynoscion nebulosus*) over temporal, spatial, and demographic scales. *Marine Ecology Progress Series* 394: 231-245
- 2009 Richardson DE, **JK Llopiz**, KD Leaman, PS Vertes, FE Muller-Karger, RK Cowen. Sailfish spawning and larval environment in a Florida Current frontal eddy. *Progress in Oceanography* 82: 252-264
- 2009 **Llopiz JK**, RK Cowen. Variability in the trophic role of coral reef fish larvae in the oceanic plankton. *Marine Ecology Progress Series* 381: 259-272
- 2009 Sponaugle S, **JK Llopiz**, L Havel, TL Rankin. Spatial variation in growth and feeding success in a coral reef fish. *Marine Ecology Progress Series* 383: 239-249
- 2008 **Llopiz JK**, RK Cowen. Precocious, selective and successful feeding of larval billfishes in the oceanic Straits of Florida. *Marine Ecology Progress Series* 358: 231-244
- 2006 Luckhurst BE, ED Prince, **JK Llopiz**, D Snodgrass, EB Brothers. Evidence of blue marlin (*Makaira nigricans*) spawning in Bermuda waters and elevated mercury levels in large specimens. *Bulletin of Marine Science* 79: 691-704

- 2005 Prince ED, RK Cowen, ES Orbesen, SA Luthy, **JK Llopiz**, DE Richardson, JE Serafy. Movements and spawning of white marlin (*Tetrapturus albidus*) and blue marlin (*Makaira nigricans*) off Punta Cana, Dominican Republic. *Fishery Bulletin* 103: 659-669
- 2005 Guigand CM, RK Cowen, **JK Llopiz**, DE Richardson. A coupled asymmetrical multiple opening closing net with environmental sampling system. *Marine Technology Society Journal* 39: 22-24

#### **OTHER PUBLICATIONS**

- 2015 **Llopiz JK**, BA Muhling, JT Lamkin. Feeding dynamics of Atlantic bluefin tuna larvae in the Gulf of Mexico. ICCAT Col. Vol. Sci. Pap. 71(4): 1710-1715
- 2015 Muhling BA, Y Liu, SK Lee, JT Lamkin, E Malca, JK Llopiz, GW Ingram, JM Quattro, JF Walter, K Doering, MA Roffer, F Muller-Karger. Past, ongoing and future research on climate change impacts on tuna and billfishes in the western Atlantic. ICCAT Col. Vol. Sci. Pap. 71(4): 1716-1727
- 2009 **Llopiz JK**, RK Cowen. The successful and selective feeding of larval fishes in the low-latitude open ocean: Is starvation an insignificant source of mortality? *ICES Annual Science Conference Proceedings*, T:14
- 2009 **Llopiz JK**. Book review of *Early Life History of Marine Fishes* by BS Miller and AW Kendall. *Bulletin of Marine Science* 85: 184-185
- 2008 **Llopiz JK**. The trophic ecologies of larval billfishes, tunas, and coral reef fishes in the Straits of Florida: Piscivory, selectivity, and niche separation. PhD Dissertation

#### **INVITED SEMINARS AND WORKSHOP PRESENTATIONS**

- 2016 UMass Amherst OEB Department seminar, “Larval fish ecology, from the Sargasso Sea to the pond over yonder”
- 2015 Future Earth biodiversity monitoring workshop, Yale University: “An overview of IMBER: Integrated Marine Biogeochemistry and Ecosystem Research”
- 2015 Stonehill College, Biology Department Seminar Series: “The trophic ecologies of fish and fish larvae in the open ocean”
- 2014 NOAA Educational Partnership Program Conference, Univ. Maryland Eastern Shore, invited panel member
- 2014 MIT/WHOI Joint Program Faculty Symposium, Cambridge, MA: “Vignettes in fisheries oceanography and larval fish ecology”
- 2013 Biophysical Coupling Impacts on Fisheries workshop, Sandusky, OH: “Complicated cascading effects of ecosystem change: trophic specialists vs. trophic generalists”
- 2013 WHOI, Summer Student Fellow Seminar Series: “Larval fish ecology in the tropical ocean”
- 2012 WHOI, Biology Department Seminar Series: “Tangled up in blue: The role of fish larvae in the complex food webs of the oceanic plankton”
- 2012 University of Massachusetts Dartmouth SMAST, Department of Fisheries Oceanography Seminar Series: “The role of fish larvae in presumed size-structured food webs”
- 2012 University of South Carolina, Marine Science Program Seminar Series: “Picky feeding by larval fish alters so-called size-structured food webs”
- 2011 CLIOTOP Working Group 1 workshop, Shimizu, Japan: “Regional and taxonomic comparisons of the feeding ecologies of larval tunas, mackerels, and billfishes”

- 2011 WHOI, Biology Department Seminar Series: “Selective feeding by larval fish alters so-called size-structured food webs”
- 2009 Rosenstiel School of Marine and Atmospheric Science, F.G Walton Smith Prize presentation: “Picky eaters at the all-you-can-eat plankton buffet: selective feeding by fish larvae in tropical oceanic waters”
- 2008 Eco-DAS VIII (formerly DIALOG), Honolulu, HI: “Trophic linkages in marine planktonic ecosystems: a comparative approach”
- 2005 SAFMC Ecosystem Research and Monitoring Workshop, Charleston, SC: “Towards elucidating the role of larval fish in the planktonic food web”

**CONFERENCE PRESENTATIONS**

- 2015 CLIOTOP Third Symposium, San Sebastian, Spain: “Feeding dynamics and degree of cannibalism of Atlantic bluefin tuna larvae in the Gulf of Mexico
- 2015 American Fisheries Society Annual Meeting, Portland, OR: “A multifaceted, highly resolved investigation into the trophic role of small pelagic fishes on the Northeast US continental shelf”
- 2015 ASLO Aquatic Sciences Meeting, Granada, Spain: “Decadal-scale changes in the Georges Bank ecosystem: evidence from bulk and compound-specific stable isotope analyses of fish scales”
- 2014 ASLO/AGU/TOS Ocean Sciences Meeting, Honolulu, HI: “Climate and regime-shift signals in the stable isotopic signatures of an upper-level consumer on Georges Bank”
- 2013 ICES Annual Science Conference, Reykjavik, Iceland: “Decadal-scale variability in the stable isotopic signatures of haddock on Georges Bank” (poster)
- 2013 Larval Fish Conference (invited speaker), Miami, FL: “The feeding of fish larvae and their role in planktonic food webs: Where have we been and where are we going?”
- 2013 CLIOTOP Second Symposium, Noumea, New Caledonia: “Regional and taxonomic comparisons of the feeding ecologies of larval tunas, mackerels, and billfishes”
- 2012 ASLO/AGU/TOS Ocean Sciences Meeting, Salt Lake City, UT: “An update on the IMBER Regional Programme CLIOTOP: Climate Impacts on Oceanic Top Predators” (poster)
- 2010 IMBER Imbizo II, Crete, Greece: “The prey environment and feeding of larval fishes in the tropical open ocean with a comparison to higher latitudes” (poster—best early-career scientist award)
- 2010 34<sup>th</sup> Annual Larval Fish Conference, Santa Fe, NM: “The complex larval fish food web of the low-latitude open ocean”
- 2009 ICES Annual Science Conference, Berlin, Germany: “The successful and selective feeding of larval fishes in the low-latitude open ocean: Is starvation an insignificant source of mortality?”
- 2009 33<sup>rd</sup> Annual Larval Fish Conference, Joint Meeting of Ichthyologists and Herpetologists, Portland, OR: “Variable trophic strategies of planktonic coral reef fish larvae: shining some light into the ‘black box’ of connectivity research”
- 2008 IMBER Imbizo, End-to-End Food Webs Workshop, Miami, FL: “Ignored no more: the role of larval fishes in the planktonic food web of the low-latitude ocean” (poster)
- 2008 ASLO/AGU/TOS Ocean Sciences Meeting, Orlando, FL: “The trophic ecologies of larval fishes in the low-latitude open ocean: predation refuge and a full tummy to boot”

- 2007 Climate Impacts on Top Predators (CLIOTOP) Symposium, La Paz, Mexico: “The trophic ecologies and prey environment of larval billfishes, tunas and mackerels: linkages and vulnerabilities for a greater predictive capacity”
- 2007 31<sup>st</sup> Annual Larval Fish Conference, St. John’s, Newfoundland: “Larval fish feeding in the low-latitude open ocean: characterizing the feeding environment and questioning the presumed constraints”
- 2007 PICES Early Career Scientists Conference, Baltimore, MD: “Trophodynamics of larval billfishes and tunas: Are the constraints of the low-latitude open ocean actually constraining?” (poster)
- 2007 University of Miami Research and Creativity Forum: “Trophodynamics of larval billfishes and tunas: Are the constraints of the low-latitude open ocean actually constraining?” (poster—1<sup>st</sup> place)
- 2006 30<sup>th</sup> Annual Larval Fish Conference, American Fisheries Society Annual Meeting, Lake Placid, NY: “Trophodynamics of larval billfishes and tunas within the Straits of Florida: gluttony, piscivory and niche separation”
- 2006 ASLO Summer Meeting, Victoria, BC: “Feeding ecology of larval billfishes and their dynamic role in the oceanic planktonic ecosystem”
- 2005 4<sup>th</sup> International Billfish Symposium, Avalon, CA: “Feeding dynamics of larval billfishes within the Straits of Florida”

**ACTIVITIES AND SERVICE**

*At WHOI*

- 2015– WHOI Summer Student Fellow Committee (Biology Department representative)
- 2015 Organizer of Biology Dept. Summer Student Research Forum
- 2015 Invited scientist and speaker, R/V *Neil Armstrong* welcoming event, San Francisco
- 2015 Panelist, Independent Study Award proposals
- 2014– Biology Department Seminar Series coordinator
- 2011– WHOI’s Gender Equity Committee
- 2011– WHOI’s Diversity Committee
- 2011–12 WHOI’s Postdoctoral Association
- 2011–12 Mentor in the WHOI Postdoc-JP Student mentoring program

*Outside WHOI*

- 2016–18 Chair, Regional Association for Research on the Gulf of Maine (RARGOM)
- 2015 Organizing Committee, CLIOTOP Third Symposium, San Sebastian, Spain
- 2014 NSF GRFP Panel Member
- 2014 Session and workshop co-convener, IMBER Future Oceans Open Science Conference: “Beyond Z: What modelers need and empiricists have to offer to better incorporate higher trophic levels and humans in end-to-end models”
- 2013 Organizing Committee, CLIOTOP Second Symposium, Noumea, New Caledonia
- 2012 Session convener, ASLO/AGU/TOS Ocean Sciences Meeting: “New insights into the early life stages and reproductive dynamics of large marine vertebrates”
- 2012 Invited participant of COSEE-NOW professional development workshop on deconstructing and communicating one’s research
- 2012/14 Mentor for ASLO Multicultural Program students at the Ocean Sciences Meeting

- 2008– Co-chair of the Early Life History Working Group for the IMBER-associated CLIOTOP (Climate Impacts on Top Predators) program
- 2008 Invited participant of Eco-DAS VIII (Ecological Dissertations in the Aquatic Sciences, formerly DIALOG)

*Reviewing*

Proposals: National Science Foundation, NOAA's Fisheries and the Environment (FATE) program, North Pacific Research Board, Fondation pour la Recherche sur la Biodiversité, Israel-US Binational Science Foundation, and Austrian Science Fund

Manuscripts: *Current Biology, Marine Ecology Progress Series, Progress in Oceanography, PLoS One, Limnology and Oceanography, Limnology and Oceanography: Methods, Journal of Marine Systems, Endangered Species Research, Deep Sea Research Part II, Canadian Journal of Fisheries and Aquatic Sciences, ICES Journal of Marine Science, Journal of Fish Biology, Journal of Plankton Research, Fishery Bulletin, Marine Ecology, Environmental Biology of Fishes, Hydrobiologia, Scientia Marina, Bulletin of Marine Science, Zoologia, Estuarine, Coastal and Shelf Science, Caribbean Journal of Science, Revista de Biología Marina y Oceanografía, Bulletin of the Southern California Academy of Sciences, Journal of Applied Ichthyology*

*Affiliations:* American Society of Limnology and Oceanography, Sigma Xi, Ecological Society of America, The Oceanography Society, and American Fisheries Society and its Early Life History Section

**FIELDWORK**

*Oceanographic cruises (~260 days at sea)*

- 2014 One-week science verification cruise aboard the R/V *Sikuliaq* off Puerto Rico
- 2014 Four-week cruise in the Gulf of Mexico aboard the R/V *F.G Walton Smith*
- 2011 Six-week cruise in the Chukchi and Bering Seas aboard the icebreaker USCGC *Healy*
- 2011 Three day-cruises in the Chukchi and Beaufort Seas aboard the R/V *Annika Marie*
- 2007/08 Three 2-week cruises along and offshore of the Florida Keys aboard the R/V *F.G. Walton Smith*
- 2002–05 Thirty cruises (>100 total days of ship time) in the Straits of Florida aboard the R/V *F.G. Walton Smith*
- 2001/02 Two 10-day cruises aboard the R/V *Suncoaster* in the Gulf of Mexico

*Nearshore*

- 2015– Small-boat sampling of coral reef fish larvae (light traps) and SCUBA diving surveys of coral reef fishes and habitat
- 2015 Small-boat sampling of larval river herring, zooplankton, water chemistry, and sediment cores from 7 lakes in central Maine
- 2014– Small-boat sampling of larval river herring, zooplankton, and water quality parameters from 4 SE Massachusetts lakes
- 2000–02 Led twice-weekly small-boat trips sampling spotted seatrout in Tampa Bay

### **TEACHING**

- 2016 WHOI-MIT Joint Program: taught graduate course *Biophysical Interactions in Pelagic Ecosystems*
- 2014 WHOI-MIT Joint Program: developed and taught graduate course *Ecology and Systematics of Marine Fishes*
- 2013 WHOI-MIT Joint Program: developed and taught graduate course *Biophysical Interactions in Pelagic Ecosystems*
- 2011–12 Marine Studies Consortium: developed and taught undergraduate course *Biology of Fishes* (students from Tufts Univ, Northeastern Univ, Wellesley College, Wheaton College, UMass Boston, and others)

### **ADVISING, MENTORING, AND SUPERVISING**

#### *Postdocs*

- 2014– Advisor for Postdoctoral Scholar Andrew Jones

#### *Graduate students*

- 2016 Host and mentor for PhD guest student and Gori Fellowship recipient Marco Torri (IAMC-CNR, Italy)
- 2016– Advisor for MIT/WHOI PhD student Justin Suca
- 2015– Advisor for MIT/WHOI PhD student Christina Hernandez
- 2015 Host and mentor for PhD guest student Amaya Uriarte (IEO, Spain)

#### *Undergraduate students*

- 2016 Mentor for WHOI Winter-term Intern Katie Swoap (Williams College)
- 2015 Mentor for MBL Semester in Environmental Science undergraduate Jacob Strock (Lafayette College)
- 2015 Mentor for WHOI Summer Student Fellow Sara Hamilton (Bowdoin College)
- 2015 Mentor for NOAA Hollings Scholar and guest student Justin Suca (UMiami)
- 2015 Mentor for undergraduate guest student Miranda Starr (Pomona College)
- 2014 Mentor for MBL Semester in Environmental Science undergraduate Sara Reese (Colgate University)
- 2014 Mentor for WHOI Summer Student Fellow André Price (Elizabeth City State Univ.)
- 2014 Mentor for undergraduate fellow Sophie Knorek (Hendrix College)
- 2013 Mentor for WHOI Summer Student Fellow Christina Hernandez (Columbia Univ.)
- 2008–09 Undergraduate honors thesis advisor of Carie Bickson (UMiami)
- 2006–07 Undergraduate honors thesis advisor of Elizabeth Crompton (UMiami)
- 2005–06 Undergraduate honors thesis advisor of Lauren Wyatt (UMiami)

#### *High School students*

- 2016 Mentor for high school intern Isabelle Stewart (Falmouth Academy)
- 2014– Mentor for high school intern Sam Cox (Falmouth Academy)
- 2014 Mentor for part-time helper high school student Marissa Lerner

#### *Supervision*

- 2015– Supervisor of Lab Assistant Julie Pringle
- 2014 Host of Guest Investigator Jaimie Rojas (Venezuela)



2015– Seven volunteers that have participated in lab activities (e.g. plankton sorting, field work, zooplankton identification)

### **OUTREACH**

2015 Invited speaker for WHOI Professional Development Workshop  
2015 Invited display for WHOI public event ‘Under the Waves’  
2014 Invited presentation for 20 6th-grade girls from the Chapin School  
2014 Presentation and lab tour for MIT Biology Department retreat  
2014 Presentation and lab tour for Chinese Deep Sea Institute visitors  
2013 Presented research to WorldBoston visitors from Russia working toward sustainable seafood  
2013 Hosted a high school student at WHOI for the day as part of a job shadow opportunity  
2011 Invited presentation to NOAA/NEFSC Woods Hole high school summer interns  
2005–10 **Fifteen** invited presentations to elementary, middle and high school classes on larval fish research  
2008 Invited presentation to 20 elementary through high school 4-H students on the identification of Florida fishes

### **MEDIA COVERAGE**

2013 *Oceanus* article on research examining stable isotopes of haddock scales and evidence for ecosystem change on Georges Bank (<http://www.whoi.edu/oceanus/feature/why-hasnt-the-cod-come-back>)  
2012 ABC (Australian television) article related to larval fish dispersal paper published in Proc Roy Soc B (<http://www.abc.net.au/science/articles/2013/03/20/3719773.htm>)