

Kristine Lindsey Stump, PhD

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EDUCATION

- 2013 Ph.D. Marine Biology and Fisheries, University of Miami – Rosenstiel School of Marine and Atmospheric Science
“The effects of nursery habitat loss on juvenile lemon sharks, *Negaprion brevirostris*”
- 2002 M.A. Marine Affairs and Policy, University of Miami – Rosenstiel School of Marine and Atmospheric Science
“The Consortium for Oceanographic Research and Education and its Census of Marine Life: creating global partnerships for the advancement of ocean science”
- 2001 B.S. Marine Science and Biology, University of Miami

PUBLICATIONS

- Weiler BA, Van Leeuwen TE, **Stump KL**. 2019. The extent of coral bleaching, disease and mortality for data-deficient reefs in Eleuthera, The Bahamas after the 2014-2017 global coral bleaching event. *Coral Reefs*
<https://doi.org/10.1007/s00338-019-01798-5>
- Stump KL**, Crooks CJ, Fitchett MD, Gruber SH, Guttridge TL. 2017. Hunted hunters: an experimental test of the effects of predation risk juvenile lemon shark (*Negaprion brevirostris*) habitat use. *Marine Ecology Progress Series* 574: 85-95. <https://doi.org/10.3354/meps12187>
- Stump, KL**, Dahlgren CP, Sherman KD, Knapp CR. 2017. Full moon migration patterns of Nassau grouper suggest collapsed historic fish spawning aggregation and existence of an undocumented aggregation. *Bulletin of Marine Science* 93(0). <https://doi.org/10.5343/bms.2016.1042>
- Jennings DE, DiBattista JD, **Stump KL**, Hussey NE, Franks BR, Grubbs RD, Gruber SH (2012) Assessment of the aquatic biodiversity of a threatened coastal lagoon at Bimini, Bahamas. *Journal of Coastal Conservation* 16(1):1-24

GRANTS AND FELLOWSHIPS

- 2016 Paul M. Angell Family Foundation research grant (\$50,000)
- 2015 Association of Zoos and Aquariums Conservation Fund research grant (\$19,453)
- 2015 Private Donor in support of Nassau Grouper research (\$10,000)
- 2015 Paul M. Angell Family Foundation research grant (\$50,000)
- 2014 Paul M. Angell Family Foundation research grant (\$25,000)
- 2014 Private Donor in support of Nassau Grouper research (\$10,000)
- 2013 University of Miami Travel Award (\$300)
- 2009 Sonotronics Telemetry Equipment Grant (equivalent to \$1,500)
- 2009 American Elasmobranch Society Travel Award (\$500)
- 2007 – 2008 UM-RSMAS Marine Biology and Fisheries Graduate Fellowship (equivalent to \$60,000)
- 2001 – 2002 UM-RSMAS Marine Affairs and Policy Graduate Fellowship (equivalent to \$60,000)

AWARDS

- 2012 Samuel H. Gruber Award for Best Student Oral Presentation, American Elasmobranch Society meeting (Vancouver, Canada)
- 2012 University of Miami Teaching Assistance Excellence Award
- 2001 Louise P. Mills Student Award, University of Miami Women’s Commission

PROFESSIONAL MEMBERSHIPS

American Elasmobranch Society (AES), American Fisheries Society (AFS), American Association for the Advancement of Science (AAAS), Association of Zoos and Aquariums (AZA), Bahamas National Trust (BNT)

PROFESSIONAL EXPERIENCE

2018 – present **Science Department Faculty, Ransom Everglades School (Miami, FL)**

- Lecturer, Biology and AP Environmental Science
- Developed new college-level Marine Field Research course to be implemented for 2019-2020 school year
- Coach, fastpitch softball team

2017 – present **Research Scientist (Independent Consultant)**

- Grant-writing for multiple collaborative research projects
- Science Team Member - The Gills Club
- Lecturer, Tropical Marine Ecology and Shark Biology courses - Field School Scientific Training
- Field support – Florida State University Coastal Marine Lab and Florida International University elasmobranch projects in the Gulf of Mexico and Florida Keys

2017 – 2018 **Lecturer, University of Miami – RSMAS (Miami, FL)**

- Marine Conservation Biology graduate course, Marine Ecosystems and Society Department

2016 **Research Associate, Cape Eleuthera Institute (Eleuthera, Bahamas)**

- Lead Scientist, Reef Ecology Team – developed, implemented and secured funding for original research focused on reef ecology, coral restoration and sustainable fisheries
- Managed team of Research Technicians (RTs) and interns for suite of research projects including the design and execution of short-term independent RT research projects
- Led Atlantic & Gulf Rapid Reef Assessment (AGRRA) surveys in Eleuthera for Bahamas-wide coral reef status evaluation
- Lead instructor, Reef Ecology Research Class for The Island School (high school)

2014 – 2016 **Postdoctoral Research Associate, John G. Shedd Aquarium – Daniel P. Haerther Center for Conservation and Research (Chicago, IL)**

- Developed, led and executed multi-year collaborative research on Nassau Grouper in The Bahamas using acoustic telemetry, diver surveys, mark-recapture, genetic sampling, essential fish habitat mapping through AGRRA surveys and blood physiology
- Chief Scientist aboard Shedd's research vessel, the *R/V Coral Reef II*
- Built formal and informal partnerships with a diverse range of organizations and individuals in multiple countries to achieve and expand research, education and outreach goals
- Secured funding from diverse sources, including grant-writing and donor cultivation
- Lead instructor, Marine and Island Ecology course - Associated Colleges of the Chicago Area consortium (undergraduate)
- Maintained popular media presence for disseminating Shedd's conservation research achievements including outlets such as Twitter, Huffington Post, National Geographic, Shedd blog and other media requests as they arose

2008 – 2011 **Principal Investigator, Bimini Biological Field Station (BBFS) (Bimini, Bahamas)**

- Developed short- and long-term research priorities to fulfill dual research and education mission
- Organized, directed and led teams of volunteers in daily field research activities (e.g., acoustic telemetry, gillnetting, rod-and-reel fishing, stomach eversions, longlining, seining, benthic habitat mapping, aerial surveys)
- Organized and led field sampling for long-term annual juvenile lemon shark census and maintained BBFS mark-recapture database; analyzed historic mark-recapture dataset using the Program MARK
- Designed and led projects for and supervised master's degree candidates and undergraduate project students conducting fieldwork at BBFS
- Hosted film crews and appeared as on-camera scientist for programs including those of BBC, NatGeo, Discovery Channel, France 2, Rete 4 (Italy) and NHK (Japan)

2003 – 2007 **Research Associate, Special Projects Coordinator & IOOS Education Liaison, Ocean.US – the National Office for Integrated and Sustained Ocean Observations (Washington, DC)**

- Federal contractor providing support for national and regional efforts to establish an Integrated Ocean Observing System (IOOS) for the U.S.

- Planned and participated in workshops and prepared federal reports for national and regional policy development and planning meetings for IOOS establishment, including representing Ocean.US on Capitol Hill
 - Led development of Ocean.US Communications Plan and outreach materials, web-based media and technical briefs, including re-design, launch and maintenance of Ocean.US website
 - Ex officio member of Federal Interagency Working Group on Ocean Education
- 2005 - 2007 **Volunteer Field Research Assistant, Bimini Biological Field Station** (Bimini, Bahamas)
- Conducted fieldwork in support of BBFS research priorities, including gillnetting, longlining, manual acoustic telemetry tacking, rod-and-reel fishing and seining for coastal and pelagic sharks
 - Field team member for two research cruises to Marquesas Keys, FL for juvenile lemon shark survey
- 2007 **Field Research Assistant, National Center for Coral Reef Research** (Punta Cana, Dominican Republic)
- Conducted reef surveys and fishermen surveys for Partnership for Ecologically Sustainable Coastal Areas project

INVITED PRESENTATIONS, CONTRIBUTIONS AND SERVICE

- 2019 Guest lecturer, Shark Biology and Conservation course at Shoals Marine Lab through Cornell University
- 2018 Guest lecturer, Shark Biology and Conservation course at Shoals Marine Lab through Cornell University
- 2018 Volunteer grader, National Ocean Sciences Bowl (NOSB) regional competition (Miami, FL)
- 2017 Plenary Speaker, Marine Science Symposium, Florida Southern College (Lakeland, FL)
- 2016 – present Member, American Elasmobranch Society Grants Fund Committee
- 2015 Guest lecturer, Shedd Aquarium seminar series (Chicago, IL)
- 2015 - present Science Team member, The Gills Club (<http://www.gillsclub.org>)
- 2015 - 2017 Core Team member, Strategic Planning Committee, Bahamas: Reverse the Decline
- 2013 Judging committee, American Elasmobranch Society Samuel H. Gruber Award for Best Student Presentation (Albuquerque, NM)
- 2012 – present Member, Bimini Biological Field Station Foundation Board of Advisors
- 2012 Research Symposium guest speaker, Cape Eleuthera Institute/The Island School (Eleuthera, Bahamas)
- 2009 Invited presentation to The Bahamas Minister of the Environment (Nassau, Bahamas)

TEACHING AND STUDENT SUPERVISION

- 2017 Lecturer, Marine Conservation Biology, University of Miami – RSMAS (graduate)
- 2016 Lead Instructor, Reef Ecology Research, The Island School – Cape Eleuthera Institute (high school)
- 2013 – 2016 Lead Instructor, Marine and Island Ecology, Associated Colleges of the Chicago Area (undergraduate)
- 2012 Teaching Assistant, Invertebrate Zoology, University of Miami (undergraduate)
**Winner, University of Miami Teaching Assistant Excellence Award*
- 2007 – 2012 Teaching Assistant, Tropical Marine Biology Field Course, University of Miami (graduate)
- 2008 – 2012 Field course lecturer, undergraduate courses hosted at Bimini Biological Field Station (BBFS) (Coastal Carolina University, Eckerd College, Florida State University, University of Minnesota, University of Miami, University of New Brunswick)
- 2008 – 2011 As Principal Investigator at BBFS, I supervised the following undergraduate and graduate students:
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| Jon Bättig, M.S.
University of Basel, Switzerland | Diego Cardeñosa, B.S.
Universidad de Los Andes, Colombia |
| Elena Salim Haubold, M.S.
Universidad Simón Bolívar, Venezuela | Christopher Crooks, B.S.
University of Manchester, UK |
| Marieke Hühn, M.S.
University of Würzburg, Germany | Leigh Kroeger, B.S.
Cardiff University, UK |
| Claudia Trave, M.S.
University of Stockholm, Sweden | Hallie O'Farrell, B.S.
University of Miami, USA |
| Ornella Weideli, M.S.
University of Basel, Switzerland | |

CONFERENCE PRESENTATIONS

- 2017 American Elasmobranch Society (Austin, TX). **Stump KL**, McManus JW, Guttridge TL, Gruber SH. Using a long-term mark-recapture dataset to investigate effects of habitat loss on juvenile lemon shark survival probability
- 2016 American Society of Ichthyologists and Herpetologists (New Orleans, LA). **Stump KL**, Dahlgren CP, Sherman KD, Knapp CR. Acoustic telemetry reveals Nassau Grouper migratory movements during spawning season to unreported location in The Bahamas
- 2016 Bahamas Natural History Conference (Nassau, Bahamas). **Stump KL**, Dahlgren CP, Sherman KD, Knapp CR. Acoustic telemetry reveals Nassau Grouper migratory movements during spawning season to unreported location in The Bahamas
- 2015 Fish at Night International Symposium (Miami, FL). **Stump, KL**, Sherman KD, Dahlgren CP, Knapp CR. Investigating dynamics of Nassau Grouper spawning aggregations in The Bahamas
- 2014 Bahamas Natural History Conference (Nassau, Bahamas). **Stump KL**, McManus JW, Gruber SH. Effects of nursery habitat loss on juvenile lemon sharks
- 2013 American Elasmobranch Society (Albuquerque, NM). **Stump KL**, Serafy JE, Gruber SH. Habitat loss in a shark nursery: community characterization before and after a disturbance
- 2012 American Elasmobranch Society (Vancouver, Canada). **Stump KL**, Crooks CJ, Guttridge TL, Gruber SH. Hunted hunters: an experimental test of the effects of predation risk on juvenile shark habitat use
**Winner, Samuel H. Gruber Award for Best Student Presentation*
- 2009 American Elasmobranch Society (Portland, OR). **Stump KL**, McManus JW, Gruber SH. Applying agent-based modeling techniques to address potential impacts of essential habitat loss in a lemon shark nursery

SELECTED POPULAR MEDIA CONTRIBUTIONS AND FEATURES

- 2015 - 2016 Contributor, Huffington Post Blog (<http://www.huffingtonpost.com/kristine-stump>)
"Groups of grouper now protected". 5 November 2015. http://www.huffingtonpost.com/kristinestump/groups-of-grouper-now-pro_b_8480118.html
"Nassau Grouper: a beautiful fish at risk". 1 October 2015. http://www.huffingtonpost.com/nassau-grouper-a-beautiful-fish-at-risk_b_8227446.html
"Things I've learned about sharks from swimming with them". 21 July 2015. http://www.huffingtonpost.com/kristine-stump/things-ive-learned-about-sharks-_b_7840990.html
- 2015 "Kristine Stump swims with tiger sharks, bull sharks, lemon sharks, hammerheads, and more". 15 July New York Times – Women in the World. <http://nytlive.nytimes.com/womenintheworld/2015/07/10/kristine-stump-swims-with-tiger-sharks-bull-sharks-lemon-sharks-hammerheads-and-more/>
- 2015 "Tracking a group of groupers". Voices – National Geographic Blog. 15 May 2015. <http://voices.nationalgeographic.com/2015/03/11/shedd-aquarium-groupers/>
- 2015 "3D activity tracking enhances conservation of Nassau Grouper" by Evan Lubofsky. 14 April 2015. Marine Science Today. <http://marinesciencetoday.com/2015/04/14/3d-tracking-conserves-fish/>
- 2014 "Chicago-area college students set sail for hands-on experience in The Bahamas. 7 July 2014. Voices – National Geographic Blog. <http://voices.nationalgeographic.com/2014/07/07/chicago-area-collegestudents-set-sail-for-hands-on-experience-in-the-bahamas/>
- 2013 "Losing Atlantis...again?" 4 March 2013. The Fisheries Blog. <http://thefisheriesblog.com/2013/03/04/losing-atlantis-again>
- 2012 "Saving Bimini: a campaign to protect a Bahamian gem". 19 June 2012. Southern Fried Science. <http://www.southernfriedscience.com/?p=13305>

CERTIFICATIONS AND TECHNICAL SKILLS

Diving & First Aid

NAUI Divemaster, NAUI Nitrox, Atlantic and Gulf Rapid Reef Assessment (AGRRA) certified benthic surveyor (2015); PADI Rescue Diver (2014); AAUS Research Diver (2007); NAUI Advanced Open Water (1996); PADI Open Water (1992); avid freediver; Wilderness First Aid (WFA), Emergency Oxygen for Diving Emergencies provider, Lifeguard, CPR certifications

Computer programs and statistical packages

Microsoft Office Suite, R, ArcGIS, PRIMER-E with PERMANOVA+, VEMCO VUE telemetry software, Program MARK, Microsoft Access, HTML, Adobe Creative Suite, UCINET with NetDraw, PISCES Community Analysis Package, Sonotronics SURSoft, 1-Wire Software, Onset HOBO data logger, Miradi Adaptive Management Software for Conservation Projects

Small Boats Handling

3000+ hours on 16' to 36' flat bottom, V-hull, panga, and ocean catamaran single and twin screw gasoline and diesel outboards and I/O; experience day/night, including shallow flats, narrow creeks, open ocean, shipping lanes, severe weather, emergency search and rescue; basic maintenance for troubleshooting minor but common issues in the field

Languages

Fluent in written and spoken Spanish