Heather M. Marshall

Research Scientist, Field Lab Consulting

1180 8th Avenue West #208, Palmetto, FL 34221

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2008-2009

hmmarshall@gmail.com

Education

PhD University of Massachusetts Dartmouth 2015 Biomedical Engineering and Biotechnology Program GPA: 3.89 MSc University of Massachusetts Dartmouth 2009 Marine Biology Program GPA: 3.96 BA Smith College 2005 Major: Biology Minor: Marine Science GPA: 3.53

Research Disciplines

Physiology, marine biology and ecology, biological oceanography, electronic tag analysis, biochemistry, ichthyology, anatomy and physiology, molecular and phylogenetic research, fisheries impacts, climate change.

Massachusetts Division of Marine Fisheries

Administrative Assistant. Environmental Review Project.

2018-present
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2016-present
2016-present
2016-present
2016
2014-2016
2012-2016
2013

Teaching Experience	
State College of Florida	2019-present
Adjunct Faculty. Introduction to Biology, Fundamentals of Biology	_
Shoals Marine Laboratory	2018-present
Adjunct Faculty. Shark Biology and Conservation	
The Island School	2016
Research Instructor. Coastal Shark Ecology	
University of South Florida Sarasota-Manatee	2015-2016
Courtesy Faculty.	
Bristol Community College	2013-2014
Adjunct Faculty. General Biology, Survey of Human Anatomy and	
Physiology, Fundamentals of Biological Science I	2007 2014
University of Massachusetts Dartmouth	2006-2014
Course manager, proctor, and grader. General Biology for Non-majors,	
Topics in Biology	
Teaching Assistant. Anatomy and Physiology	
Guest Lecturer. Animal Physiology, Biological Oceanography	
Academic Resource Center Tutor. Biology, Marine Biology	2005
Smith College Laboratory teaching assistant Marine Feelow	2005
Laboratory teaching assistant. Marine Ecology	
Grants and Awards	
Bycatch Reduction and Engineering Program grant, NOAA (Co-PI w/ N. Whit	
Improving cost-efficiency and monitoring duration in the study of post-rele	ase
mortality in highly migratory species.	2016
Cooperative Research Program grant, NOAA (Co-PI w/ N. Whitney and R. Hu	
Bringing large sample sizes to the study of post-release mortality in highly	migratory
species. Christiana Haway Bising Scholar Award Migrayaya Talametry, Inc.	2016
Christiane Howey Rising Scholar Award, Microwave Telemetry, Inc.	2010
The post-release mortality and stress physiology of salmon sharks (<i>Lamna ditropis</i>) in Alaska.	
Doctoral Fellowship, University of Massachusetts Dartmouth	2013
Investigations in the stress physiology and survival of elasmobranch fishes,	
applications to fisheries management.	WILLI
Wildlife Computers Scholarship, Tuna Conference	2011
Habitat utilization and movement patterns of juvenile porbeagle sharks	2011
(Lamna nasus) in the northwest Atlantic.	
Travel Grant, National Science Foundation/Woods Hole Oceanographic Institu	ite 2010
Haematological stress parameters in longline captured pelagic sharks.	
Biology Publication Award, University of Massachusetts Dartmouth	2008
Comparative metabolic biochemistry of shark myocardial tissue.	
Student Poster award, 3 rd Annual Biology New England South	2008
Comparative metabolic biochemistry of shark myocardial tissue.	
Travel Grant, American Elasmobranch Society	2008
Comparative metabolic biochemistry of shark myocardial tissue.	
Best Poster Runner-up, Northeast Biological Graduate Student Conference	2007
Habitat utilization and movement patterns of juvenile porbeagle sharks	
(Lamna nasus) in the northwest Atlantic.	
Scholarship, National Marine Fisheries Service/Virginia Tech	2006
Marine Resources Population Dynamics Workshop.	

Publications and Technical Reports

- Queiroz, N., Humphries, N.E., Couto, A., Vedor, M., da Costa, I., Sequeira, A.M., ... and D.W. Sims. (*in review*). Global spatial risk assessment of sharks under the footprint of fisheries. *Nature*.
- Lynch, S.D., Marcek, B.J., Marshall, H.M., Bushnell, P.G., Bernal, D., and R.W. Brill. 2017. The effects of pop-up satellite archival tags (PSATs) on the metabolic rate and swimming kinematics of juvenile sandbar shark *Carcharhinus plumbeus*. *Fisheries Research*, 186: 205-215.
- Marshall, H., Ross, P.G., Skomal, G., and D. Bernal. 2015. Correlation of hook-time with post-release mortality and fishing-induced stress response in sandbar (*Carcharhinus plumbeus*) and dusky (*Carcharhinus obscurus*) sharks. *Fisheries Research*, 172: 373-384.
- Lucey, S.M., Duffy, W.J., Adams, E.K., Marshall, H., Nichols, O., and K. Thompson. 2013. A Review of "Scientific Communication for Natural Resource Professionals." *Transactions of the American Fisheries Society*, 142: 1154-1155.
- Marshall, H., Field, L., Afiadata, A., Sepulveda, C., Skomal, G., and D. Bernal. 2012. Hematological indicators of stress in longline-captured sharks. *Comparative Biochemistry and Physiology A*, 162: 121-129.
- Skomal, G., Marshall, H., Chisholm, J., Natanson, L., and D. Bernal. 2009. Habitat utilization and movement patterns of porbeagle sharks (*Lamna nasus*) in the western North Atlantic. ICCAT/SCRS/2009/094.

Conference Presentations

Joint Meeting of Ichthyologists and Herpetologists/	2016
American Elasmobranch Society	
The Society for Integrative and Comparative Biology	2016
Joint Meeting of Ichthyologists and Herpetologists/	2015
American Elasmobranch Society	
The Tuna Conference	2015
Florida Marine Science Educators Association	2015
The Tuna Conference	2013
The Society for Integrative and Comparative Biology	2013
10 th International Congress on the Biology of Fish	2012
The Tuna Conference	2011
The Society for Integrative and Comparative Biology	2011
5 th Annual Biology New England South	2010
International Council for the Exploration of the Sea	2010
Joint Meeting of Ichthyologists and Herpetologists/	2010
American Elasmobranch Society	
The Society for Integrative and Comparative Biology	2009
3 rd Annual Biology New England South	2008
Joint Meeting of Ichthyologists and Herpetologists/	2008
American Elasmobranch Society	
Northeast Biological Graduate Student Conference	2008

Public Outreach and Volunteer Experience

American Elasmobranch Society

2018-present

Grant Fund Committee. Review grant applications and symposia proposals from members of the society, culminating in award selection and funding designation.

The Gills Club 2014-present

Co-Founder and Science Team Coordinator. Club development and scientist recruiter to inspire, support, and inform girls of all ages who are interested in sharks and ocean conservation.

Public Talks 2014-present

"Sharks, Tales and Ales". Mote Marine Laboratory

"Women Scientists Making Waves in Shark Research". Eastward Ho! Country Club

"Shark Research Confessions". New England Aquarium

"Sharks, OCEARCH, and Gills Club!". The Ocean Explorium

OCEARCH 2012-2016

Science Team member. Public/online outreach events, school presentations.

Seminar Speaker 2009-present

The Harte Research Institute for Gulf of Mexico Studies

University of North Florida

University of Massachusetts Dartmouth

Mote Marine Laboratory 2005

Intern. Supervisor: Dr. Colin Simpfendorfer

Massachusetts Division of Marine Fisheries 2004

Intern. Supervisor: Dr. Gregory Skomal

Journal Reviewer

Conservation Physiology, Scientific Reports, Fish and Fisheries, Journal of Coastal Research, Physiological and biochemical Zoology, Ocean and Coastal Management

Memberships

Divers Alert Network	2016-2017
Society of Integrative and Comparative Biology	2009-present
Sigma Xi	2006-present
American Fisheries Society Southern New England Chapter	2006-present
American Elasmobranch Society	2005-present

News and Media

Featured, interviewed, and/or quoted: The New Yorker, NPR, New England Cable News, The New York Times, FOX, The Cape Codder, Outside Magazine, Longboat Key News, Patch.com.