

Liber Ero Postdoctoral Research Fellow  
Interdisciplinary Marine Conservation Biologist

E-mail: David.Shiffman@gmail.com  
DavidShiffmanCV.com

## **David Shiffman**

---

### **Postdoctoral Fellowships**

#### **Liber Ero Postdoctoral Research Fellowship**

- 2017-Present: based at Simon Fraser University in Burnaby, BC
- Project: “an interdisciplinary assessment of the sustainability of Canadian shark fisheries”
- Supervisor: Dr. Nicholas Dulvy, Simon Fraser University

### **Education**

#### **University of Miami, Miami, FL**

- 2011-2016: Ph.D. program in interdisciplinary Ecosystem Science and Policy
- Dissertation: Ecosystem role and conservation of sharks
- Adviser: Dr. Neil Hammerschlag

#### **College of Charleston, Charleston, SC**

- 2008-2011: Masters in Marine Biology
- Thesis: feeding ecology of sandbar sharks using stable isotope analysis
- Adviser: Dr. Gorka Sancho

#### **Duke University, Durham, NC**

- Class of 2007: B.S. with distinction in Biology, concentration in Marine Science

### **Selected Scientific Publications** 423 citations, H index 10, i-10 index 12

- Bangle, C., Paramore, L., **Shiffman, DS**, and Rulifson, R. (2018) Increased Abundance and Nursery Habitat Use of the Bull Shark (*Carcharhinus leucas*) in Response to a Changing Environment in a Warm-Temperate Estuary. Scientific Reports.
- **Shiffman, DS**. (2018). Social media for fisheries science and management professionals: How to use it and why you should. Fisheries
- Bird, C...**Shiffman, DS**...and Trueman, C (72 total authors). (2018). A global perspective on the trophic geography of sharks. Nature Ecology and Evolution.
- **Shiffman, DS** and Hueter, R. (2017). A United States shark fin ban would undermine sustainable shark fisheries. Marine Policy.
- **Shiffman, DS**, Macdonald, C, Ganz, HY, and Hammerschlag, N. (2017). Fishing practices and representations of shark conservation issues among users of a land-based shark angling online forum. Fisheries Research.
- Smith, NS, Cote, IM, Martinez-Estevés, L, Hind-Ozan, EJ, Quiros, AL, Johnson, N, Green, SJ, Cornick, L, **Shiffman, DS**, Malpica-Cruz, L, Besch, AG, and Shiel-Rolle, N. (2017). Diversity and inclusion in conservation: a proposal for a marine diversity network. Frontiers in Marine Science.
- Gallagher, AJ, **Shiffman, DS**, Byrnes, EE, Hammerschlag-Peyer, CM, and Hammerschlag, N. (2017). Patterns of resource use and isotopic niche overlap

among three species of sharks occurring within a protected subtropical estuary. Aquatic ecology,

- **Shiffman, DS** and Hammerschlag, N. (2016). Preferred conservation policies of shark researchers. *Conservation Biology*.
- **Shiffman, DS** and Hammerschlag, N. (2016) Shark conservation and management policy: a review and primer for non-specialists. *Animal Conservation*. (Featured on cover)
- **Shiffman, DS**, Hammerschlag, N. (2014) An assessment of the scale, practices, and conservation implications of Florida's charterboat-based recreational shark fishery. *Fisheries*. (Featured on cover)
- **Shiffman, DS**, Gallagher AJ, Wester, J, Macdonald, CC, Thaler, AD, Cooke, SJ, and Hammerschlag, N. (2014). Trophy fishing for species threatened with extinction: a way forward building on a history of conservation.
- **Shiffman, DS**, Frazier, B, Kucklick, J, and Sancho, G. (2014) "Detection of an ontogenetic shift in diet between young-of-year and juvenile sandbar sharks in South Carolina estuaries using d13C and d15N stable isotope analysis". *Marine and Coastal Fisheries*. (One of 5 most-downloaded papers of the year for MCF)
- Gallagher, AJ, Hammerschlag, N, **Shiffman, DS**, Giery, ST. (2014) Evolved for extinction: the cost and conservation implications of extreme specialization in hammerhead sharks. *BioScience* (Featured on cover)
- Parsons, ECM, **Shiffman, DS**, Darling, ES, Spillman, N, and Wright, AJ. (2014). How Twitter Literacy Can Benefit Conservation Scientists. *Conservation Biology*.
- Darling, ES, **Shiffman, DS**, Drew, J, and Cote, I. (2013). The role of twitter in the life cycle of a scientific publication. *Ideas in Ecology and Evolution*
- **Shiffman, DS**, Gallagher, AJ, Boyle, MD, Hammerschlag-Peyer, CM, and Hammerschlag, N. (2012). Stable isotope analysis as a tool for elasmobranch conservation research: a primer for non-specialists. *Marine and Freshwater Research* (Featured on cover).
- **Shiffman, DS** (2012). Twitter as a tool for conservation outreach and education: what scientific conferences can do to promote live-tweeting. *Journal of Environmental Studies and Sciences*.
- Thaler, AD, Zelnio, KA Freitag, A, MacPherson, R, **Shiffman, DS**, Bik, H, Goldstein, M, and McClain, C. (2012). Digital Environmentalism: Tools and strategies for the evolving online ecosystem. In D. Gallagher (ed.) *Environmental Leadership: A Reference Handbook*. SAGE

## **Teaching Experience**

### **Guest lectures**

- 2011-Present: I have given 14 guest lectures focusing on my research at 8 Universities throughout the United States and Canada.

### **College of Charleston, Charleston, SC**

- 2008-2011: Teaching assistant, Biology 102 (Introduction to Ecology and Evolution).
- Responsible for 18 20-student sections over 3 years.
- Responsible for leading discussions, running laboratory activities, grading.

## **Duke University, Durham, NC**

- 2007-2008: Teaching assistant, Biology 25 (Introduction to Biology)
- Responsible for six sections of 24 students.
- Responsible for leading discussions, running laboratory activities, grading

## **Invited Seminars**

- University of British Columbia Institute of Fisheries Seminar Series- Fall 2017
- University of British Columbia BLISS Seminar Series- Fall 2017
- Simon Fraser University Les Ecologistes Seminar Series- Fall 2017
- University of Washington School of Fisheries and Aquatic Sciences Departmental Seminar Series- Fall 2017
- Florida Atlantic University Marine Seminar Series- Spring 2017
- NOAA Seminar Series- Fall 2015

## **Field Research Experience**

### **Shark Research and Conservation Program, Miami, FL**

- 2011-2016: trip leader for long-term shark population surveys

### **South Carolina Department of Natural Resources, Charleston, SC**

- 2008-2011: field assistant for a long-term shark population survey

## **Leadership and Service**

### **OceansOnline/4<sup>th</sup> and 5<sup>th</sup> International Marine Conservation Congress**

- 2016-Present: Chair. Planning and running an add-on day to the International Marine Conservation Congress based on 2013's ScienceOnline Oceans.

### **Society for Conservation Biology (Marine Section)**

- 2017-Present: Member-at-Large of Board of Directors
- 2017-Present: Deputy Chair, Policy Committee
- 2016-Present: Interdisciplinary Committee, founding member

### **University of Miami Shark Research and Conservation Program**

- 2012-2016: Assistant Intern Coordinator. Assisted in the professional development (field and lab skills) of more than 75 SRC undergraduate and Masters interns
- 2011-2016: Trip leader. Served as Chief Scientist, in charge of dozens of research expeditions, coordinated and trained interns and community volunteers, responsible for research equipment as well as data and sample collection.

### **American Elasmobranch Society**

- 2015-Present: Young Professional Recruitment Fund coordinator. Managed a program designed to increase diversity in the society, resulting in 48 new society members from historically underrepresented groups
- 2012-Present: Executive Committee of the Board of Directors (Editor)

### **ScienceOnline Oceans (held at University of Miami)**

- 2013: Conference organizer. Conceived, planned, fundraised for, and ran a conference that brought nearly 200 marine scientists, educators and conservationists to talk about how internet tools can help research and outreach.

### **IUCN Red List Shark Specialist Group**

- 2013-Present: Cross-Cutting Committee, advising on communications strategy

## **Peer Review**

- 2010-Present: I have served as a referee for 19 scientific journals, including Biological Conservation, Conservation Biology, Conservation Letters, Journal of Fish Biology, Marine Ecology Progress Series, Environmental Biology of Fishes, Fisheries, BioScience, Copeia, and PLoS ONE.

## **Selected Awards and Grants**

- 2017: Liber Ero Postdoctoral Research Fellowship awardee
- 2016: Named one of the best environmentalists in Florida by the New Times
- 2014: John Beakley Marine Science Educator of the Year award (Florida Marine Science Education Association)
- 2014: SciFund Challenge Crowdfunding Grant Recipient (\$8,000)
- 2014: Save Our Seas Foundation small grant. (\$4,900).
- 2010:-College of Charleston Graduate Program in Marine Biology Student Research Colloquium: “Best Presentation” award
- 2009: Honorable Mention: National Science Foundation Graduate Research Fellowship

## **Selected Conference Presentations and Workshops**

I have attended 41 scientific conferences (including 11 international conferences), and have presented my research or led training workshops at 33 of them, including:

- 2017: How to talk to non-experts about your science, and why you should. (Invited professional development workshop, University of Washington School of Fisheries and Aquatic Sciences).
- 2017: A case study of increasing diversity in a scientific society: The American Elasmobranch Society’s Young Professional Recruitment Fund. (Invited symposium talk, International Congress for Conservation Biology)
- 2017: Communicated in a crowded space. (Panel, Capitol Hill Ocean Week)
- 2017: Tools and rules of online engagement. (Invited presentation to the Board of Life Sciences of the National Academies of Science, Engineering, and Medicine).
- 2016: The role of modern communication technology in marine conservation and fisheries. (Invited symposium talk, American Fisheries Society)
- 2016: The role of non-expert activists in shark conservation (Invited symposium presentation, 4<sup>th</sup> International Marine Conservation Congress)
- 2016: Intraspecific variation in the relative isotopic niche breadth and overlap of coastal sharks. (Presentation, American Elasmobranch Society/JMIH)
- 2015: Initial assessment of the scale, practices, and conservation implications of land-based shark fishing in Florida (Presentation, AES/JMIH)
- 2014: Using social media to make your marine science matter (Workshop, 3<sup>rd</sup> International Marine Conservation Congress)
- 2014: Effective use of social media. (Workshop, National Sea Grant Week)
- 2014: Conservation policy preference of shark researchers (Presentation, Sharks International)
- 2013: Use of social media to assess the knowledge and attitudes of different stakeholder groups towards shark conservation. (Presentation, AES/JMIH)

### **Selected popular press interviews**

My connections to the science journalism community have resulted in over 200 popular press interviews about shark science conservation, including high-profile interviews about my research that I've highlighted below.

- 2017: "Shark fin bans might not help sharks, scientists say." Associated Press, picked up in newspapers nationwide.
- 2017: "Shark fin trade faces troubled waters." National Public Radio, rebroadcast nationwide.
- 2017: "Banning shark fin soup in the US is bad for shark conservation." New Scientist.
- 2017: "Angler's online boasts reveal illegal shark hunting." Nature.
- 2017: "Shark fishing forum reveals destructive practices despite good intentions." National Geographic.
- 2017: "Harvesting sharks could be the key to saving them." Scientific American.
- 2016: "Does banning all shark fishing do more harm than good?" Conservation Magazine.
- 2015: "Curbing the shark fin trade is laudable, but it's not enough to save the species." Washington Post.
- 2014: "Scientists want end to traditional trophy fishing of threatened species." Science.
- 2014: "Why sharks matter: David Shiffman '07 is on a mission to change your mind about sharks." Duke alumni magazine profile.