

Education

B.S. Duke University – Biological Sciences

Ph.D. Cornell University – Biological Sciences

Professional History

2008- **Pew Environment Group – New England Fisheries Campaigns, Boston, MA**
Pew Charitable Trusts

Scientists

- Science Director for Pew Campaigns on Herring and Ending Overfishing in New England

2004- **Boston University Marine Program, Boston, MA**
Visiting Scholar (in residence as of 2008)

2002-2008 **Conservation Law Foundation, Boston, MA**

Senior Scientist

- Director of Initiative on Marine Ecosystem Conservation (2003-2007)
- Director of science program
- CLF/SeaWeb Partnership – lead
- Member of intern committee and science intern supervisor
- Science advisory committee – coordinator
- Member of CLF's Advocacy Coordinating Committee
- Partnership with WWF-Canada - manager
- Environmental Health and Justice Initiative - founding director

1993-2003 **University of Pennsylvania, Philadelphia, PA**

Tenured Professor

- Director, *Auditory Neuroethology Laboratory*
- Promoted with tenure
- Appointed to standing faculty, School of Arts and Sciences - assistant professor
- Mahoney Institute of Neurological Sciences - faculty
- Graduate group in Neuroscience, Penn School of Medicine - faculty
- Executive committee, Biological Basis of Behavior Program
- Grant-funded research - basic research in animal behavior, ecology and sensory physiology; NIH grant funding with smaller grants from foundations
- Committee service - graduate admissions, curriculum, program advisory, executive, faculty search, tenure review, and training grant committees.
- Teaching
 - undergraduates in the biology, psychology, and biological basis of behavior
 - research supervision of 27 graduate students and numerous undergraduates

2003 **Stellwagen Bank National Marine Sanctuary, Scituate, MA**

Visiting Scientist

- Research - condition of the sanctuary
- Demonstrated systematic decreases size attained by fishes over past half century
- *State of the Sanctuary Report* - Contributor

1990-1993 **Parmly Hearing Institute, Chicago, IL**

Research Assistant Professor

- Basic research on hearing
- NIH Grant Support

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- Developed animal model for studies of hearing and sound communication – fish
 - Advised graduate students, Department of Biology, Loyola University of Chicago

Postdoctoral Fellow

- NIH Trainee

1982-1989 Cornell University, Ithaca, NY

Supervisor - Liddell Laboratory for Animal Behavior

Graduate student – Division of Biological Sciences

1980-1981 Massachusetts Institute of Technology

Visiting Scientist - National Magnet Laboratory

- Research – biological detection of magnetic fields

Publications

Environmental

- *Marine Ecosystem Conservation for New England and Maritime Canada: A Science-Based Approach to Identifying Priority Areas for Conservation*, published by Conservation Law Foundation and WWF-Canada, 2006 (193 pp w/ coauthor Jennifer Smith).
- *Habitat protection under the Magnuson-Stevens Act: can it really contribute to ecosystem health in the northwest Atlantic?* *Ocean and Coastal Law Journal* (2006), **12**(1):43-89. University of Maine School of Law (w/ coauthor Roger Fleming, Earth Justice).
- Non-technical communications - numerous public advocacy pieces including two recent brochures on ocean conservation (2007), short pieces in the Boston Globe and New York Times, and radio (CBC) and television pieces (NECN).

Academic

- Peer reviewed publications – over 20 full-length publications on animal behavior, ecology, and physiology
- Published summaries from national and international conferences (31)

Public Speaking

- Ocean conservation – fourteen public lectures on the design and importance of marine reserves for the Gulf of Maine region, including Universities, Capitol Hill Oceans Week, and various other public fora
- Scientific lectures – invited lectures on animal behavior and physiology, thirty one lectures, four countries
- Lectures for graduate, undergraduate, and elementary school students – over 400

Public Service – New England

- Participant - stakeholder process for management of the Stellwagen Bank National Marine Sanctuary
- Working group member – management plan review for Stellwagen Bank National Marine Sanctuary
- Science advisor – Massachusetts Ocean Partnership Fund

International Field Experience

- Africa: Democratic Republic of the Congo (Zaire), Gabon, Ivory Coast
- Central America & Caribbean: Belize, Mexico, Cayman Islands, St Lucia, Puerto Rico, Bonaire, Tortolla
- South America: Columbia, Argentina
- Pacific: Australia, Fiji, Hawaii, Tahiti