

# Curriculum Vitae:

## Neil Hammerschlag



Image above: While free diving in the Bahamas, Neil Hammerschlag is taking a photo of an approaching Tiger Shark. Image courtesy of Aaron Whittemore.

### Contact Details:

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### Education:

Honors Bachelor of Science (Spec. Ecology/ Zoology) – University of Toronto, graduated 2002.

Masters Candidate (Marine Biology) – Nova Southeastern University Oceanographic Center, graduation 2004.

## **Occupation:**

**Research Biologist and education coordinator – ReefQuest Centre For Shark Research**

**Biology Undergraduate Teaching Assistant – Nova Southeastern University**

**Physical Oceanography Graduate Teaching Assistant – Nova Southeastern Oceanographic Center**

## **Accreditations:**

**AAUS Scientific Diver (NSU OC), Master Scuba Diver (PADI) and Medic First Aid (Red Cross)**

## **Awards and Sponsorships**

**The Bermuda Biological Research Station Scholarship – 2000**

**The University of Toronto Grant Ferguson Graduate Studies Scholarship – 2002**

**Oregon Scientific Equipment Sponsorship – 2003**

**YSI Equipment Sponsorship – 2003**

**The Ben Meadows Company Sponsorship – 2003**

**LI-COR Biosciences Sponsorship – 2003**

**The American Institute of Marine Studies Graduate Scholarship - 2004**

## **Research Experience:**

**An assessment of the distribution of coral disease in neritic waters off Bermuda – *Bermuda Biological Research Station, Bermuda – 2000***

**An evaluation of bat roosting behaviors and its subsequent effect on bat ectoparasite loads in Costa Rica and Nicaragua – *La Seurte, Costa Rica and Ometepe, Nicaragua – 2001***

**An analysis of Blue and Leopard shark population dynamics in Santa Cruz California – *Pelagic Shark Research Foundation, Santa Cruz, California – 2001***

**Sensory modalities and behavior of chimney-building crayfish, *Fallicambarus fodiens* – *University of Toronto, Toronto, Canada – 2001/2002***

**An evaluation of Whale Shark (*Rhincodon typus*) population dynamics by means of sampling and satellite tagging in Honduran waters – *Shark Research Institute, Utila, Honduras – 2001***

**Predator- prey interactions between Great White Sharks (*Carcharodon carcharias*) and Cape Fur Seals (*Arctocephalus pusillus pusillus*) in False Bay, South Africa (with R. Aidan Martin) – *The ReefQuest Centre for Shark Research – 2002***

**Mortality of Puffadder Shysharks (*Haploblepharus edwardsii*) due to Cape Fur Seals (*Arctocephalus pusillus pusillus*) and Kelp Gulls (*Larus dominicanis*) at Seal Island, South Africa (with R.Aidan Martin) – *The ReefQuest Centre for Shark Research – 2002***

**Attack on seabirds by White Sharks at Seal Island, South Africa: mistaken identity, investigation, or play? (with R. Aidan Martin, Kathryn Hodgson, and Chris Fallows)**

**Coastal and pelagic shark habitat selection in the Mozambique Channel (with Chris Fallows and Rob Lawrence)**

### **Current Research:**

**Predator-prey relationships between White Sharks (*Carcharodon carcharias*) and Cape Fur Seals (*Arctocephalus pusillus pusillus*) at False Bay, South Africa (with R. Aidan Martin)**

**Application of Geographic Profiling to the study of White Shark predatory behaviour at Seal Island, South Africa (with R. Aidan Martin and Kim Rossmo)**

**Short- and long-term identification of individual White Sharks at Seal Island, South Africa, based on pigmentation and scarification patterns (with R. Aidan Martin, Kathryn Hodgson, Gennadyi Gurman, and Chris Fallows)**

**Factors affecting White Shark predatory success at Seal Island in False Bay, South Africa (Masters Thesis)**

**The history of osmoregulation in elasmobranchs: A review (for presentation at The International conference on the biology and conservation of freshwater elasmobranchs in Manaus, Brazil, July 2004).**

**Range extension and threat behavior of Galapagos Sharks in the Mozambique Channel.**

### **Future Research Projects:**

**An evaluation of the White Shark's (*Carcharodon carcharias*) visual systems adapted for hunting during day and night**

**A critical review of the White Shark's diet, predatory behavior, life history, movements, and feeding ecology (with R. Aidan, Martin)**

**Development of a shark research, conservation and education program in Florida, USA (with T. Davis of South Broward High School)**

**Salmon Shark behaviour, gut contents, and distribution in Alaska (with R. Aidan Martin)**

### **ReefQuest Responsibilities:**

**Field research coordinator, South African White Shark expedition leader, corporate sponsorship, Merchandise, Editor of "Shark Watch" and Media contact.**

### **Publications:**

**Martin, R. Aidan, Neil Hammerschlag, and Kim Rossmo. *In prep.* Application of Geographic Profiling to the study of White Shark predatory behaviour at Seal Island, South Africa [slated for Nature.]**

**Martin, R. Aidan, Neil Hammerschlag, Kathryn Hodgson, Gennadyi Gurman, and Chris Fallows. *In prep.* Short- and long-term identification of individual White Sharks at Seal Island, South Africa, based on pigmentation and scarification patterns. [slated for Marine Biology]**

Hammerschag, Neil, R. Aidan Martin and Chris Fallows. *in prep.* Range extension of the Galapagos Shark in the Mozambique Channel. [ slated for South African Journal of Marine Science]

### **Outside Interests:**

Snowboarding, photography, running, fine art, hockey, film, and reading

### **Scientific Conferences and Symposiums:**

Invitation to present and prepare a paper on the history of osmoregulation in elasmobranchs in Manaus, Brazil at The International conference on the biology and conservation of freshwater elasmobranchs – July, 2004.

### **Public Speaking:**

Institute of Maritime Technology – Simons Town, South Africa

Nova Southeastern University, Oceanographic Center – Dania Beach, Florida

Northeastern High School – Ft. Lauderdale, Florida

Apple Croft Junior High School – Toronto, Canada

South Broward High School – Broward, Florida

American Institute of Marine Studies – Ft Lauderdale, Florida

ReefQuest South African Research Station – Simons Town, South Africa.

### **Organization Affiliations:**

The Shark Research Institute, The American Elasmobranch Society, American Academy of Underwater Sciences, The Pelagic Shark Research Foundation, Shark Diver Magazine, South Florida Underwater Photography Society, Divers Alert Network, Shark Diver Magazine, and The Ocean Conservatory.

### **Research Associates:**

R. Aidan Martin – ReefQuest Centre For Shark Research

Mahmood Shivji – Nova Southeastern University

Mark Farber – Nova Southeastern University

Edward Keith – Nova Southeastern University

Chris Fallows – Apex Images CC

Rob Lawrence – African Shark Eco-tours

Samuel Gruber – Bimini Biological Field Station