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Neil Hammerschlag

Contact Details:

Neil Hammerschlag
University of Miami,
Rosenstiel School for Marine and Atmospheric Science
4600 Rickenbacker Causeway,
Miami, Florida, USA, 33149

Email: nhammerschlag@rsmas.miami.edu

Phone: O: 305.421.4356 C: 954.815.0920 F: 305.421.4356

Website: www.neil4sharks.org

Post-Secondary Education:

University and Institution	Degree	Subject Area(s)	Dates
University of Miami, Rosenstiel School of Marine and Atmospheric Science	Ph.D	Marine Biology and Fisheries	Entered program Fall 2004
Nova Southeastern University, Oceanographic Center	M.S.	Marine Biology	2002 – 2004
University of Toronto	B.S.c (Hon.)	Ecology (Specialty) Zoology (Minor) Fine Art (Minor)	1998 – 2002

Appointments:

University, Company or Organization	Rank or Title	Dates
South Florida Student Shark Program	Director of Education Program	2005 – present
Pew Institute for Ocean Science, University of Miami	Research Assistant	2004 – 2006
ReefQuest Centre for Shark Research	Staff Biologist	2002 – present
University of Miami, Rosenstiel School of Marine and Atmospheric Science	MBF Student Representative - Marine Science Graduate Student Organization	2004 - 2005

Teaching Appointments:

Institution	Program	Position	Format	Year(s)
University of Miami	South Florida Student Shark Program	Education Program Director	Program consists of lectures, field trips, data assimilation, organization and dissemination	2004 – Present
Nova Southeastern University, Oceanographic Center	Graduate Physical Oceanography	Teaching Assistant	12 week course consisting of lectures	2004
ReefQuest Marine Projects	South African Shark Research Expeditions	Expedition Leader	2 week field course	2003 – 2004
Nova Southeastern University	Undergraduate Biology	Teaching Assistant	16 week course, consisting of labs and lectures	2003

Accreditations:

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

Awards, Grants and Sponsorships:

Name	Type	Year
Southern Florida Chapter Explorers Club	Student Grant Program	2006, 2007
Herbert W. Hoover Foundation	Grant & Scholarship	2006, 2007
SeaStar Doctoral Graduate Scholarship	Graduate Scholarship	2004
Key Biscayne Rotary Club	Graduate Fellowship	2005, 2006
Florida State Jaycees	Young Environmentalist of the Year Award	2004
The American Institute of Marine Studies	South African Shark Education Trip Grant	2004
Oregon Scientific	Equipment Sponsorship	2003
Endeco/ YSI	Equipment Sponsorship	2003
The Ben Meadows Company	Equipment Sponsorship	2003
LI-COR Biosciences	Equipment Sponsorship	2003
The University of Toronto	Grant Ferguson Graduate Studies Scholarship	2002
The Bermuda Biological Research Station	Summer Student Scholarship	2000

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 behaviours and its subsequent effect on bat ectoparasite loads in Costa Rica and Nicaragua – *La Seurte, Costa Rica and Ometepe, Nicaragua* – 2001
- Sensory modalities and behavior of chimney-building crayfish, *Fallicambarus fodiens* – *University of Toronto, Toronto, Canada* – 2001/2002
- Predator- prey interactions between Great White Sharks (*Carcharodon carcharias*) and Cape Fur Seals (*Arctocephalus pusillus pusillus*) in False Bay, South Africa (MS Research at *Nova Southeastern University*, supervised by R. Aidan Martin) – 2002 to 2004
- Life history, ecology and conservation of sharks in remote atolls of the West Indian Ocean (with Chris Fallows) – 2003 to present
- Community Ecology of Fishes in Biscayne Bay, Florida (University of Miami, PhD Research, Supervised by Dr. Joseph Serafy – NOAA/NMFS/RSMAS)

Selected Publications In Print/Press/Review:

Scientific:

- **Hammerschlag, Neil.** 2004. Factors affecting predatory success of White Sharks (*Carcharodon carcharias*) at Seal Island in False Bay, South Africa. *Nova Southeastern University Publication*, Masters Thesis, 85 pp.
- **Hammerschlag, Neil.** 2004. A review of osmoregulation in freshwater and marine elasmobranchs. pp. 35-41. In: R.A. Martin and D. MacKinlay (ed.) *Proceedings of the American Fisheries Society, fourth International Congress on the Biology of Fish*, Manaus, Brazil.
- **Hammerschlag, Neil.** 2006. Osmoregulation in Elasmobranchs: A review for fish biologists, behaviourists and ecologists. *Marine and Freshwater Behaviour and Physiology* 39(3): 209-228.
- **Hammerschlag, Neil** and Chris Fallows. 2005. Galapagos sharks (*Carcharhinus galapagensis*) at the Bassas da India atoll: first record from the Mozambique Channel and possible significance as a nursery area. *South African Journal of Science* 101: 375-377.
- **Hammerschlag, Neil**, R. Aidan Martin and Chris Fallows. 2006. Effects of environmental conditions on predator-prey interactions between white sharks (*Carcharodon carcharias*) and Cape fur seals (*Arctocephalus pusillus pusillus*) at Seal Island, South Africa. *Environmental Biology of Fishes* 76: 341-350.
- Martin, R.A., **Neil Hammerschlag**, Ralph Collier and Chris Fallows. 2005. Predatory Behaviour of White Sharks (*Carcharodon carcharias*) at Seal Island, South Africa. *Journal of the Marine Biological Association of the UK*, 85: 1121-1135.
- Martin, R.A., D. Kim Rossmo, **Neil Hammerschlag**. In Review. Hunting behavior reveals evidence of optimal foraging and learning: insights from white shark predation at a seal colony. *Ecology*

Abstracts:

- **Hammerschlag, Neil.** 2004. A Review of Osmoregulation in Freshwater and Marine Elasmobranchs. *American Fisheries Society, Physiology Section, IV International Congress on the Biology of Fish*, Manaus, Brazil.
- Martin, R. Aidan, **Neil Hammerschlag** and Chris Fallows. 2004. Overview of white shark (*Carcharodon carcharias*) research at Seal Island, South Africa. *European Elasmobranch Association, 8th International Conference*, London, England.
- **Hammerschlag, Neil.** 2005. The influence of white sharks (*Carcharodon carcharias*) on a temperate marine ecosystem: a comparative study on direct and indirect effects. *University of Miami Research and Creativity Forum*, Miami, Florida.
- **Hammerschlag, Neil,** R. Aidan Martin and Chris Fallows. 2005. White Shark (*Carcharodon carcharias*) Predation on Cape Fur Seals (*Arctocephalus pusillus pusillus*) at Seal Island, South Africa: Present Knowledge and Future Directions. *American Elasmobranch Society, International Conference*, Tampa, Florida.
- Martin, R. Aidan, Rossmo, D. Kim and **Neil Hammerschlag.** 2006. Geographic Profiling of White Shark Predation. *American Elasmobranch Society*, New Orleans, Louisiana.
- Rossmo, D. Kim., **Neil Hammerschlag,** and R. Aidan Martin. 2007. Environmental Criminology and Optimal Foraging Models: Spatial Analysis and Geographic Profiling of White Shark Predation. 15th International Symposium on Environmental Criminology & Crime Analysis, London, England

Popular:

- **Hammerschlag, Neil.** 2003. Currents Magazine: Fall 2003, Volume XVII, Number 4. (Editor. Kathy Maxson), Nova Southeastern University Publication
- **Hammerschlag, Neil.** 2004. Sharing space with an Oceanic Whitetip. *Shark Diver Magazine*. Issue 7: 22 - 24.
- **Hammerschlag, Neil.** 2005. Making Faces at a Tiger. *Shark diver Magazine*. Issue 9: 42 - 43.

Photo Publications:

- Have published photos in various books, websites, magazines, newspapers and Museums including [Shark Diver Magazine](#) (2004, 2005); [The Miami Herald](#) (2004); the [National Geographic Website](#) (2004); [State of The Wild \(Wildlife Conservation Society, 2005\)](#); [Diving with Giants \(New Holland Publishers, 2006\)](#); [Defying Ocean's End \(Island Press, 2005\)](#); [Shark World Exhibit at the South African Natural History Museum](#) (2004), the Shark and Ray Exhibit at the [Adrian Tolliday Exploris Northern Ireland Aquarium](#) (2005) and the [Miami Museum of Science and Planetarium](#) (2006).

Public Speaking:

- Have presented on various aspects of shark biology at conferences, museums, government agencies, high schools and universities, including the [Institute for Maritime Technology in Simons Town, South Africa](#) (2003); Nova Southeastern University in Ft. Lauderdale, Florida (2003, 2004); University of Miami Rosenstiel School in Florida (2004, 2005); [American Institute of Marine Studies](#) (2003) [Miami Museum of Science and Planetarium](#) (2005, 2006), [Ft. Lauderdale Museum of Science and Discovery](#) (2006, 2007).

Organization Affiliations and Memberships:

- [The University of Miami, Rosenstiel School of Marine and Atmospheric Science](#)
- [The South Florida Student Shark Program](#)
- [The Explorers Club](#)
- [ReefQuest Centre for Shark Research](#)
- [National Center for Caribbean Coral Reef Research \(NCORE\)](#)
- [The American Elasmobranch Society \(AES\)](#)