

Sarah L. Fann

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Objectives

- Conduct meaningful research that contributes to the survival of marine species in light of global climate change, pollution, and other damaging human environmental factors.

Education

University of North Carolina Wilmington

Magna cum laude

GPA: 3.85/4.0

B.S. in marine biology and statistics 2010.

Honors Thesis: *Environ centrality quantifies the relative roles of species in generating ecosystem activity*. Advisor: Dr. Stuart R. Borrett

Interests

- Marine ecology
- Oceanography
- Ecological systematics
- Experimental design
- Statistical programming
- Data Analysis

Awards and Honors

- University Honors
- Honors in the Department of Marine Biology
- U.S. Fulbright to Australia
- Marine Biology Achievement Award 2010
- Chancellor's Achievement Award (highest academic award) *Earned 5 semesters*
- Dean's List 2006-2010
- Phi Kappa Phi Honor Society 2009-2010
- 1st place; National Marine Fisheries Hollings research competition; \$500
- National Oceanic and Atmospheric Administration's Ernest F. Hollings Undergraduate Scholarship 2008-2010; \$8,000 annually
- University Merit Scholarship 2006 – 2010; \$1,500 annually
- John and Belle Shisko Scholarship for Marine Biology 2008 – 2010; \$3,500 annually
- Carl Nelson Jr. Scholarship for Statistics 2009; \$1,200 annually
- National Collegiate Honors Council Board of Directors 2007-2009
- Chancellor's Challenge Award (community service) 2009
- Leadership Excellence Award 2009
- Distinguished Leadership Award 2010

Research

- Temperature effects on survivability and hatching rate of shortnose sturgeon eggs at NOAA's Howard Marine Laboratory. Summer 2009. *Research presented*
- Sequenced, mapped, and analyzed the mDNA and nDNA of the lionfish species *Ptoris miles* and *P. volitans* at UNCW's Center for Marine Science. Fall 2007.
- Behavioral responses to light in the sea urchin *Lytechinus variegatus* at Duke University under the mentorship of Dr. Sonke Johnsen. 2006; *Research presented*
- Ecological survey and plotting of Duke Forest to determine the success of burning. 2005; *Research presented*.

Professional Conferences and Research Symposiums

- International Society of Ecological Modelling 2009
 - Presented current research in Network Environ Analysis.
 - Member 2009-2011
- National Oceanic and Atmospheric Administration's Science Education Symposium 2009
 - Presented research on temperature effects on shortnose sturgeon egg development
- National Collegiate Honors Council 2006-2009
 - Board of Directors member 2007- 2009
 - Presenter 2007- 2009
 - Member 2007 – 2009
- Colonial Academic Alliance 2009
- Eastern North American Region: International Biometric Society 2008
- North Carolina Honors Association 2006-2008
 - Presenter 2007-2008
- Southern Regional Honors Council 2007
 - Presenter 2007
- Annual Undergraduate Research Showcase 2009 - 2010
 - Presenter 2009-2010

General Research Skills

- PADI rescue diver certification
- Captive marine organism care
- Basic laboratory safety and maintenance
- Field sampling techniques: seining, transects, water samples, and otter trawling

Language Skills

- Intermediate Japanese: including reading and writing Hiragana, Katakana and some Kanji

Computer Skills

- Windows, Intermediate Mac
- Microsoft Office 2003 and 2007, LaTeX
- SAS 9.1, 9.2
- R, Matlab, and Limited Ecopath with Ecosim

Academic Clubs

- Student Honors Advisory Council 2007-2010
 - Established a new honors basic study course: Honors Statistics
 - Led an initiative to raise the minimum GPA requirement for the Honors Scholars Program
- UNCW Mathematics and Statistics Club 2007-2010

Community Service

- The Haiti Project 2010
 - Worked with a team of students to raise \$200 for earthquake victims in Haiti
- National Collegiate Honors Council 2007-2009
 - Served on the Science and Mathematics Committee
 - Served on the Student Concerns Committee
 - Served on the Board of Directors
- North Carolina Science Olympiad 2007 - 2008
 - Helped evaluate, supervise, set-up, and break-down science Olympiad competitions for middle and high school students in mathematics and physics.
- UNCW Disability Services Fall 2008
 - Mathematics scribe for disabled student