

Marnin D. Wolfe

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EDUCATION

Philosophy of Science, Ecology and Evolutionary Biology; University of Pittsburgh, Pittsburgh, PA; In progress
2007-Present

Bachelor of the Sciences in Biology; Minor in Spanish; Eckerd College, St. Petersburg, Florida; 2006 graduate with
High Honors; GPA 3.81

Lake Brantley High School, Altamonte Springs, Florida; 2002 graduate with Honors; GPA 4.1

HONORS AND AWARDS

Eckerd College Honors Scholarship Recipient: Fall 2002 – Fall 2005

Florida Bright Future Academic Scholarship: Fall 2002 – Fall 2005

National Honor Society Member: Spring 2002 – Fall 2005

Dean's List: Fall 2002, Spring 2004, Fall 2004, Spring 2005

Galbraith Research Fellowship recipient: Summer 2004

RESEARCH AND ACADEMIC EXPERIENCE

Benchmark EnviroAnalytical, Inc. – (September 2006 – August 2007) – Palmetto, FL:

Chemical and biological analysis company dedicated to providing accurate analysis of environmental and industrial samples of water and soil for regulatory compliance and research purposes.

Biologist, Delta Seven, Inc. - (February 2006 to September 2006) - St. Petersburg, FL:

Science-based environmental assessment and permitting servicing clients throughout the state of Florida. Providing environmental integrity and regulatory compliance to projects. Involves:

Geographic information systems (GIS) including:

Vegetative Mapping

Design and placement of docking facilities

Mapping of topography and other features using GPS

Ecological surveys (especially of vegetation)

Wetland delineation/jurisdictional determination

Water quality analysis

Environmental resource permitting

Project design using TurboCAD

Volunteer for Boyd Hill Nature Preserve - (September 2005 - December 2005) - St. Petersburg, Florida:

Care of birds-of-prey

Care of reptiles and amphibians

Nature tours

Exotic removal

Educational activities

Assistant for Park events

Research Experiences for Undergraduates – (Summer 2005) – Miami University, Oxford, Ohio:

Senior thesis research for Eckerd College

Microsatellite analysis of freshwater mussel populations

Field sampling

Ecology and genetics coursework

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Attended the Ecological Society of America Conference 2005 in Montreal, Canada

Seeking publication of project data in peer-reviewed publication

Galbraith Fellowship Research – (Summer 2004) - Bermuda Biological Station for Research:

Restriction endonuclease analysis of zooxanthellae

Sampled for zooxanthellae in Sargasso sea, sediments, and other waters surrounding Bermuda

Coursework: Marine Microbial Ecology and Marine Genomics

Field time on R/V Weatherbird II

Volunteer for the Bermuda Sea Turtle Project - (August 2004) - Bermuda and Eckerd College:

Conservation effort aimed at assessing sea turtle population structure in Bermuda.

Surveyed *Chelonia mydas* (green sea turtle) populations

Drew sea turtle blood

Mitochondrial DNA analysis of sea turtles, conducted at Eckerd College

Population genetics statistics

Herpetology Conservation Efforts through Eckerd College:

Projects involved intense periods of data collection and monitoring, followed by data analysis and scientific paper-writing at the institution and in the laboratory. Included:

Surveys of aquatic turtle population structure at Rainbow River Run (Fall 2003 – Fall 2004)

Surveys of gopher tortoises on Egmont Key (Spring 2004, Spring 2005)

Survey of native herpetofauna restoration on the Archbold Biological Station (Spring 2004, Spring 2005)

Surveys of *Trachemys scripta elegans*, an invasive species, as well as other aquatic turtles located on campus (Spring 2004)

Herpetofaunal population studies in Eckerd's Palm Hammock reserve (Spring 2004)

Hylid tree frog population study (Fall 2005) sponsored by Dr. Elizabeth Forsys

Teacher's Assistant for Biodiversity laboratories (Fall and Spring 2004):

Assisted with all aspects of the class' laboratories taught by Professor Michael Matott.

SKILLS

- Molecular and laboratory techniques
- Polymerase Chain Reaction
- Gel Electrophoresis
- Isolation of DNA from tissues
- DNA sequencing
- Western Blotting
- Plant media
- Organic horticulture
- Application of herbicide
- Hobby hydroponics
- Native planting and care
- Microsoft/Word Perfect Office applications
- Spanish language
- ArcGIS
- GPS
- Familiar with Florida ecosystems and wildlife
- Literature- and experiment-based research

RELEVANT COURSEWORK

- Ecology
- Ecology of Reptiles and Amphibians
- Evolution
- Population Biology
- Cell Biology
- Genetics
- Biodiversity I and II
- Inorganic and Organic Chemistry
- Biotechnology
- Marine Microbial Ecology
- Marine Genomics
- Marine Mammology

VOLUNTEER ACTIVITIES

Boyd Hill Nature Preserve, St. Petersburg, Florida

Bermuda Sea Turtle Project, Bermuda (Summer 2004)

Library Assistant, Seminole County Public Library West, Longwood, FL (August 2001 – August 2002)

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ECKERD COLLEGE SENIOR THESIS

Wolfe, M.D. 2006. Population genetic structure of the freshwater mussel *Lampsilis siliquoidea* (Bivalvia: Unionidae) in the Darby creek watershed, central Ohio. Senior Thesis. Eckerd College, St. Petersburg, FL.