

JESSICA JOY NOGGLE
Graduate Research Assistant
Florida Integrated Science Center
Center for Aquatic Resource Studies
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SUMMARY

PhD candidate in ecotoxicology, an interdisciplinary field that applies science to issues of pollution in wildlife. Extensive interaction within three major sectors of toxicology – academia, government, and industry – giving attention to the specific interests of each sector. Excellent academic record throughout student career. Seasoned speaker, delivering to a wide range of audiences from scientists to college students to yoga practitioners. High aptitude for leadership, with strong skills in organization & planning, collaboration, mentoring, and evaluation.

EDUCATION

Doctor of Philosophy in Physiological Sciences, expected 2004

Specialization in Toxicology

University of Florida, Gainesville, FL

Dissertation: "Influence of pulp & paper mill effluents on secondary sex characteristics & reproductive parameters in gambusia"

GPA 3.8 / 4.0

Bachelor of Science in Zoology, *Summa cum laude*, 1999

Minor in Wildlife Ecology & Conservation

University of Florida, Gainesville, FL

GPA 3.6 / 4.0

RESEARCH EXPERIENCE

Graduate Research Assistant, Ecotoxicology Program, USGS/BRD Florida Integrated Science Center, Center for Aquatic Resource Studies, Gainesville, FL, 2000 to present

- Conduct field and laboratory experiments to evaluate reproductive effects of pulp & paper mill effluents on largemouth bass and mosquitofish
- Assist with field work and specimen processing for studies evaluating effects of pesticides on amphibians, reptiles, birds, fish, and invertebrates

Research Technician, Ecotoxicology Program, USGS/BRD Florida Integrated Science Center, Center for Aquatic Resource Studies, Gainesville, FL, 2000

- Assisted with field and laboratory studies utilizing several wildlife models (largemouth bass, mosquitofish, alligators, freshwater mussels, apple snails) to assess impacts of contaminants on reproductive and developmental parameters

Laboratory Technician, Department of Pathobiology, College of Veterinary Medicine, University of Florida, 1999

- Performed Southern blots to determine presence of antigenic variation in the bovine blood parasite *Babesia bovis*
- Collected and processed bovine blood samples

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Senior Thesis, Ichthyology Department, Florida Museum of Natural History.
1999

"Sharks, Humans, and Tides: Correlating Shark Attack Frequency and Tidal Stage in South Africa"

- Utilized the International Shark Attack Files and a tide software program to determine the relationship between tidal stage and shark attack frequency in South Africa

Student Laboratory Assistant, Department of Zoology, College of Liberal Arts & Sciences, University of Florida, 1998

- Attempted to characterize the endothelin-b receptor gene in *Opsanus beta* using microsatellites and PCR techniques

Student Laboratory Assistant, Department of Zoology, College of Liberal Arts & Sciences, University of Florida, 1997

- Assisted in fish hemodynamics research, performing assays on aortic rings of *Opsanus beta*

TEACHING EXPERIENCE

Teaching Assistant, Department of Fisheries and Aquatic Sciences, University of Florida, Ruskin, FL & St. Augustine, FL, May 2002
Diseases of Warmwater Fish

- Supported instructors & students during field & laboratory exercises such as water quality testing, necropsies, and species identification
- Executed and graded practical examination

Teaching Assistant, Department of Zoology, University of Florida, Seahorse Key, FL, May – June 1999

Field Problems in Marine Biology

- Guided collection trips by boat in Cedar Key area using dredges, trawls, seine nets, sieves, and shovels
- Assisted students with species identification
- Executed and graded practical examination

HONORS AND AWARDS

National Council for Air and Stream Improvement, Inc., Research Triangle Park, NC, 2003

Project title: "Evaluation of potential reproductive effects of pulp & paper mill effluents in gambusia: phase III"

PI: Timothy S. Gross, junior PI: Jessica J. Noggle

Total amount awarded: \$65,000

National Merit Scholarship Corporation, Evanston, IL, 1996-1999 University of Florida-sponsored merit scholarship award

Total amount awarded: \$50,000

B.P.O. Elks Lodge #93, Hamilton, OH, 1996-1998

College scholarship award

Total amount awarded: \$1,500

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PRESENTATIONS **Noggle JJ**, Bradley WK, Smith JT, Gross TS

Platform presentation, "Relationship between changing effluent quality and reproductive effects in Eastern gambusia"

24th annual meeting of the Society of Environmental Toxicology & Chemistry, Austin, TX, November 9-13, 2003

Noggle JJ, Smith JT, Ruessler DS, Quinn BP, Holm SE, Sepulveda MS, Gross TS
Platform presentation, "Paper mill process modifications reduce biological effects on largemouth bass and Eastern gambusia"

5th International Conference on Fate and Effects of Pulp and Paper Mill Effluents, Seattle, WA, June 1-4, 2003

In review for publication of conference proceedings

Noggle JJ, Bradley WK, Borton DL, Smith JT, Gross TS

Platform presentation, "Comparison of anal fin morphology & hormone status in gambusia among Florida pulp & paper mills"

5th International Conference on Fate and Effects of Pulp and Paper Mill Effluents, Seattle, WA, June 1-4, 2003

In review for publication of conference proceedings

Noggle JJ, Bradley WK, Borton DL, Smith JT, Gross TS

Poster presentation, "[Comparison of anal fin morphology in female gambusia among three Florida pulp and paper mills](#)"

23rd annual meeting of the Society of Environmental Toxicology & Chemistry, Salt Lake City, UT, November 16-20, 2002

Gross TS, **Noggle JJ**, Quinn BP, Smith JT, Ruessler DS, Wiebe JJ, Sepulveda MS, Holm SE, Wieser CM

Poster presentation by TS Gross, "Effects of paper mill effluents and mill process modifications on reproductive function of Florida largemouth bass"

23rd annual meeting of the Society of Environmental Toxicology & Chemistry, Salt Lake City, UT, November 16-20, 2002

Bradley WK, Borton DL, **Noggle JJ**, Gross TS

Platform presentation by DL Borton, "Process modifications of pulp mills reduce masculinization of female mosquitofish"

23rd annual meeting of the Society of Environmental Toxicology & Chemistry, Salt Lake City, UT, November 16-20, 2002

Noggle JJ

Invited platform presentation, "Gambusia and pulp & paper mill effluents"

Georgia-Pacific Corp. 2002 Environmental Conference, Atlanta, GA, September 16 & 17, 2002

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Noggle JJ, Ruessler DS, Sepulveda MS, Holm SE, Gross TS
Poster presentation, "[Responses of Eastern mosquitofish to papermill effluent exposure](#)"
22nd annual meeting of the Society of Environmental Toxicology & Chemistry, Baltimore, MD, November 11-15, 2001

Noggle JJ, Bradley WK, Ruessler DS, Sepulveda MS, Gross TS
Poster presentation, "[Considerations in mosquitofish and papermill effluent studies: analysis of methodology](#)"
22nd annual meeting of the Society of Environmental Toxicology & Chemistry, Baltimore, MD, November 11-15, 2001

Noggle JJ, Ruessler DS, Sepulveda MS, Holm SE, Gross TS
Poster presentation, "[Effects of papermill effluent on secondary sex characteristics in mosquitofish](#)"
40th annual meeting of the Society of Toxicology, San Francisco, CA, March 25-29, 2001

Noggle JJ, Gross TS
Platform presentation, "Effects of paper mill effluents on secondary sex characteristics in mosquitofish"
4th annual meeting of the Southern Conference of Researchers in Aquatic Diseases, Gainesville, FL, February 10-12, 2001
2nd place Best Student Presentation

PUBLICATIONS 5-6 publications to be submitted *after* dissertation defended, per supervisory committee request

AFFILIATIONS **Graduate Assistants United**, union member 2003

Florida Public Interest Research Group, member 2003

Society of Environmental Toxicology & Chemistry, student member 2001-present

Golden Key National Honor Society, alumni member, student induction 1997

SERVICE **Lincoln Middle School Science Fair**, Alachua County School District, FL, judge for biochemistry & chemistry, DEC 2003

Environmental Protection Advisory Committee, Alachua County, FL, citizen-at-large member June 2001-SEPT 2002, vice chair OCT 2002-SEPT 2003

Regional Science Fair, Alachua County School District, FL, judge for environmental sciences 2001, judge for multidisciplinary team projects 2002

Graduate Student Guidelines Review Committee, Department of Physiological Sciences, University of Florida, spring 2003