

## PERSONAL DATA

**Name:** Philip Charles Darby

**Contact Information:**

University of West Florida, Department of Biology  
11000 University Parkway  
Pensacola, FL 32514-5751

pdarby@uwf.edu

850-474-2647

## EDUCATION

1995- **Ph.D.**, December 1998. Department of Wildlife Ecology and Conservation, University  
1998 of Florida, Gainesville, FL.

*Dissertation:* Florida apple snail (*Pomacea paludosa* Say) life history in the context of a hydrologically fluctuating environment.

1987- **M.S.**, May 1990. Nicholas School of the Environment, Duke University, Durham, NC.

1990 *Thesis:* Biochemical responses of an estuarine bivalve to oxygen stress and redox-active compounds.

1982- **B.S.**, June 1987. Department of Forestry and Wildlife, Virginia Tech, Blacksburg, VA.

1987 *Magna cum laude*

*Double Major:* Wildlife Management (in honors) and Biochemistry

*Minor:* Chemistry

## PROFESSIONAL EXPERIENCE (*previous 18 years*)

2005- **Associate Professor.** Dept. of Biology, University of West Florida, Pensacola, FL.  
present Nine-month contract that includes teaching three to six undergraduate and graduate level biology courses per academic year. Expectations include community and University service, and developing an active research program involving graduate and undergraduate students.

1999- **Assistant Professor.** Dept. of Biology, University of West Florida, Pensacola, FL.

2005

1998 **Co-Instructor.** Dept. of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL. Instructed the wildlife portion of Natural Resource Sampling.

1995- **Research Assistant.** Florida Cooperative Fish and Wildlife Research Unit, Dept. of  
1998 Wildlife Ecology and Conservation, University of Florida, Gainesville, FL.

Responsible for all aspects of a grant to study the ecology of the Florida apple snail, including budgets, purchases, equipment design, experimental design, hiring and supervising assistants and MS degree students, and producing deliverables.

1993- **Field Ecologist.** Florida Cooperative Fish and Wildlife Research Unit, Dept. of  
1995 Wildlife Ecology and Conservation, University of Florida, Gainesville, FL.

Responsible for monitoring snail kites with transmitters and leg bands (mark-

resighting) from airboats and small aircraft using radio-telemetry. Participated in annual kite surveys. Also participated on a mark-recapture study of tree snails.

- 1992 **Course Instructor.** Fisheries and Wildlife Sciences, North Carolina State University, Raleigh, NC. Developed and taught Natural Resource Conservation
- 1991-1993 **Associate Consultant.** The Cadmus Group, Inc., Durham, NC. Provided technical support on EPA contracts 1) the National Human Exposure Assessment Survey (NHEXAS) and 2) assessment of the efficacy of NPDES permit compliance system.
- 1991-1993 **Independent Contractor.** Duke University, Durham, NC. Designed and coordinated the installation of an aquatic toxicology testing facility at Duke University. Responsible for budgeting and working with subcontractors.
- 1990 **Senior Research Biologist,** Wildlife International, Ltd., Easton, MD. Study director of acute aquatic pesticide studies under Federal Good Laboratory Practice regulations. Developed standard operating procedures, conducted toxicity studies, and wrote reports for clients. Supervised three lab technicians and served as safety officer.

## **FELLOWSHIPS, SCHOLARSHIPS AND AWARDS**

- 2006 Faculty Distinguished Research Award, University of West Florida.
- 1998 Best Student Paper Award, Florida Lake Manag. Society Meeting, Orlando, FL.
- 1996 Best Student Paper Award, American Fisheries Society Meeting, Florida Chapter, Brooksville, FL.
- 1988-1990 NIEHS Toxicology Fellowship, Duke University.
- 1987-1988 Forestry and Environmental Studies Research Assistantship, Duke University.
- 1987 Forestry and Wildlife Alumni Award for Outstanding Scholarship, Virginia Tech.
- 1987 Alpha Zeta Outstanding Senior Award, Virginia Tech.
- 1987 Gamma Sigma Delta Agricultural Honor Society, Virginia Tech.
- 1987 Phi Kappa Phi Honor Society, Virginia Tech.
- 1986-1987 Elected President, Va Tech Chapter of the Wildlife Society, Virginia Tech.

## **Professional Organizations**

- 2002-2005 UWF Chapter, Phi Sigma Biological National Honor Society. Faculty Advisor
- 1998-Present Society of Wetland Scientists
- 1996-2005 Ecological Society of America
- 2000-present Florida Academy of Sciences

- 2000-2003 Florida Native Plant Society
- 1987-1993 Society of Environmental Toxicology and Chemistry
- 1982-1987 Virginia Tech Student Chapter of the Wildlife Society

## PUBLICATIONS

### *Articles Published in Referred Journals*

- 19 Glass, N. H. and **P. C. Darby**. 2008. The effect of calcium and pH on Florida apple snail, *Pomacea paludosa* (Gastropoda: Ampullariidae), shell growth and crush weight. Aquatic Ecology DOI: 10.1007/s10452-008-9226-3.
- 18 Conner, S.L, C. M. Pomory and P.C. Darby. 2008. Density effects of native and exotic snails on growth in juvenile apple snails *Pomacea paludosa* (GASTROPODA: AMPULLARIIDAE): a laboratory experiment. Journal of Molluscan Studies 74:355-362.
- 17 Valentine-Darby, P. L., **P. C. Darby**, R. E. Bennetts, W.M. Kitchens and H. F. Percival. 2008. The use of mark-recapture to estimate Florida apple snail (*Pomacea paludosa* Say) density in wetland habitats. Florida Scientist 71:115-127.
- 16 **Darby, P.C.**, Bennetts, R.E. and H.F. Percival. 2008. Dry down impacts on apple snail demography: implications for wetlands water management. Wetlands 28:204-214.
- 15 **Darby, P. C.**, D. J. Mellow and M. L. Watford. 2007. Food handling difficulties for snail kites capturing non-native apple snails. Florida Field Naturalist 35:79-85.
- 14 Bennetts, R.E., **P.C. Darby**, L.B. Karunaratne. 2006. Foraging patch selection by snail kites in response to vegetation structure and prey abundance and availability. Waterbirds 29:88-94.
- 13 **Darby, P.C.**, Bennetts, R.E. and L.B. Karunaratne. 2006 Apple snail densities in habitats used by foraging snail kites. Florida Field Naturalist 34:37-47.
- 12 Corrao, N.M., **P.C. Darby**, and C.M. Pomory. 2006. Nitrate impacts on the Florida apple snail. (*Pomacea paludosa* Say). Hydrobiologia 568:135-143.
- 11 Karunaratne, L.B., **P.C. Darby**, and R.E. Bennetts. 2006. The effects of habitat structure on apple snail density and implications for wetland restoration and management of Florida wetlands. Wetlands 26:1143-1150.
- 10 **Darby, P.C.**, P. L. Valentine-Darby, and H. F. Percival and W.M. Kitchens. 2004. Florida apple snail responses to lake habitat restoration activity. Archiv Für Hydrobiologie. 161:561-575.
- 9 **Darby, P.C.**, P. L. Valentine-Darby, and H. F. Percival. 2003. Dry season survival in a

- Florida apple snail population (*Pomacea paludosa* Say). *Malacologia* 45:179-184.
- 8 **Darby, P.C., R.E. Bennetts, S. J. Miller and H. F. Percival.** 2002. Movements of Florida apple snails in relation to water levels and drying events. *Wetlands* 22: 489-498.
  - 7 Stevens, A.S., Z.C. Welch, **P. C. Darby**, and H. F. Percival. 2001. Temperature effects on Florida apple snail activity: implications for snail kite (*Rostrhamus sociabilis*) foraging success and distribution. *Wildlife Society Bulletin* 30: 76-81
  - 6 **Darby, P.C., P.L. Valentine-Darby, H. F. Percival, and W. M. Kitchens.** 2001. Collecting apple snails (*Pomacea paludosa* Say) from wetland habitats using funnel traps. *Wetlands* 21: 308-311.
  - 5 Stevens, A.S., N. M. Stevens, **P. C. Darby**, and H. F. Percival. 1999. Observations of fire ants attacking aestivating apple snails. *J. Molluscan Studies* 65: 507-510
  - 4 **Darby, P.C.** 1999. Radio transmitter retrieval in wetlands using a magnetic probe. *J. Field Ornithology.* 70: 587-590.
  - 3 **Darby, P.C., J. D. Croop, R. E. Bennetts, P. Valentine-Darby and W.M. Kitchens.** 1999. A comparison of sampling techniques for quantifying abundance of the Florida apple snail (*Pomacea paludosa*, Say). *J. Molluscan Studies* 65: 195-208.
  - 2 **Darby, P.C., P. L. Valentine-Darby, and R.E. Bennetts.** 1995. Spatial relationships of foraging and roost sites used by snail kites at Lake Kissimmee and Water Conservation Area 3A, Florida. *Florida Field Naturalist* 24: 1-9.
  - 1 **Darby, P.C., E. P. Gallagher, and R.T. Di Giulio.** 1993. Glutathione enzymes, glutathione content and t-butyl hydroperoxide induced lipid peroxidation in the gill and digestive gland of the estuarine clam, *Rangia cuneata*. *Comparative Biochem. and Physiol.* 106C: 809-814.

*Articles In Press, In Review or In Preparation for Referred Journals*

- 2 **Darby, P. C., S. E. Kell, R. E. Eckert, P. L. Valentine-Darby.** 200x. Susceptibility of apple snails to less charismatic predators. (*in revision*).
- 1 Valentine-Darby, P. L. and **P. C. Darby.** 200x. Gender-based differences in Florida apple snail movements. (*in preparation*)

*Selected Technical Reports (out of 28 total)*

- 1 **Darby, P. C.** 2008. Baseline monitoring of apple snails as an indicator of restoration success. Submitted to the St. Johns River Water Management District, Palatka, FL. January 28, 2008. 15 pp.
- 2 **Darby, P.C.** 2006. Ecological Studies of apple snails in Florida lakes: 2001-2006 Comprehensive Report. Submitted to the Florida Fish and Wildlife Conservation Commission, Tallahassee, FL. June 30, 2006. 111 pp.

- 3 **Darby, P.C.** 2005. Apple snail abundance in snail kite foraging sites on Lake Okeechobee. Final Report. Submitted to the Florida Fish and Wildlife Conservation Commission, Tallahassee, FL. June 30, 2005. 14 pp.
- 4 **Darby, P.C.,** L. B. Karunaratne and R. E. Bennetts. 2005. Final Report: The influence of hydrology and associated habitat structure on spatial and temporal patterns of apple snail abundance and recruitment. Submitted to the US Geological Survey, Miami, FL. 72 pp.
- 5 **Darby, P.C.** 2002. Apple snail abundance and recruitment in Florida springs. Final Contract Report. Submitted to the Florida Department of Environmental Protection, Tallahassee, Fl. 14 pp.
- 6 Bennetts, R.E. and **P.C. Darby.** 2002. *White Paper.* The effects of artificial drawdowns on Snail Kites and Florida apple snails with special reference to the Lake Tohopekaliga habitat enhancement project. Submitted to the Florida Fish and Wildlife Conservation Commission, US Fish and Wildlife Service, and Army Corps of Engineers. 9 pp.
- 7 Ostertag, T.E. and **P.C. Darby.** 2000. Restoration of Jones Swamp, Escambia County, Florida. Final Report submitted to the Escambia County Department of Neighborhood and Environmental Services, Pensacola, Florida. 23 pp.
- 8 **Darby, P.C.,** P. L. Valentine-Darby and H. F. Percival. 1998. Assessing the Impact of the Lake Kissimmee restoration on apple snails. Final report submitted to the Florida Game and Fresh Water Fish Commission, Tallahassee, FL. 54 pp.

#### **GRANTS AND CONTRACTS** (*Awarded \$1,300,497 to date*)

2008- 2009	Author and P.I. of the proposal, <i>Estimating apple snail density and egg cluster production on Lake Istokpoga</i> , funded by South Florida Water Management District.	\$40,857
2007- 2008	Author and P.I. of the proposal <i>Monitoring Florida apple snail populations on central Florida lakes</i> , funded by the Florida Fish and Wildlife Conservation Commission.	\$51,798
2007- 2008	Author and P.I. of the proposal <i>Baseline monitoring of apple snails (Pomacea paludosa) as indicators of restoration success</i> , funded by the St. Johns River Water Management Districts..	\$9,996
2007- 2008	Author and P.I. of the proposal <i>Photographing less charismatic Everglades fauna</i> , funded by the Faculty Small Grants Award Program, University of West Florida.	\$2,000
2006-	Author and P.I. of the proposal <i>Monitoring native and exotic apple snail</i>	\$42,844

2007	<i>populations on central Florida lakes</i> , funded by the Florida Fish and Wildlife Conservation Commission.	
2006- 2007	Co-author and supervisor for a honors thesis proposal (CJ Carroll), Effects of substrate on climbing behavior of apple snails, funded by UWF.	\$1,000
2005- 2008	Author and P.I. of the proposal <i>Investigating regulating and limiting factors on apple snail demography</i> , funded by the US Fish and Wildlife Service.	\$279,445
2005- 2006	Author and P.I. of the proposal <i>Response of native and exotic apple snails to lake habitat management</i> ), funded by the Florida Fish and Wildlife Conservation Commission.	\$38,540
2004- 2005	Author and P.I. of the proposal <i>Apple snail habitat relationships on central Florida lakes</i> (II), funded by the Florida Fish and Wildlife Conservation Commission.	\$50,000
2004- 2005	Author and P.I. of the proposal <i>Apple snail abundance in Snail Kite Foraging Sites on Lake Okeechobee</i> , funded by the Florida Fish and Wildlife Conservation Commission.	\$25,000
2003- 2004	Author and P.I. of the proposal <i>Apple snail habitat relationships on central Florida lakes</i> , funded by the Florida Fish and Wildlife Foundation of Florida. Inc.	\$33,668
2003- 2004	Author and P.I. of the proposal <i>Optimizing Hatching and Growing Conditions for Apple Snails Under Laboratory Conditions</i> , funded by the Faculty Small Grants Award Program, University of West Florida.	\$2000
2002- 2003	Author and Co-P.I. of the proposal <i>Nitrate impacts on apple snail growth and survival</i> , funded by the Florida Department of Environmental Protection.	\$50,187
2002- 2003	Author and P.I. of the proposal <i>The effect of habitat restoration activities on apple snail abundance in central Florida lakes</i> , funded by the Florida Fish and Wildlife Foundation of Florida, Inc.	\$21,777
2002- 2005	Author and co-P.I. of the proposal <i>Influence of hydrology and associated habitat structure on spatial and temporal patterns of apple snail abundance and recruitment</i> , funded by the Department of Interior (US Geological Survey and National Park Service).	\$103,518
2001- 2004	Author and P.I. of the proposal <i>Florida apple snail abundance and recruitment along hydrologic gradients in the Everglades</i> , funded by the US Fish and Wildlife Service, Loxahatchee National Wildlife Refuge, Boynton Beach, FL.	\$75,000
2001-	Author and P.I. of the proposal <i>The effect of habitat restoration activities on apple snail abundance in central Florida lakes</i> , funded by the Florida	\$24,467

2002	Fish and Wildlife Conservation Commission.	
2001- 2002	Author and P.I. of the proposal <i>Apple snail density and egg production associated with first magnitude springs in Florida</i> , funded by the Florida Department of Environmental Protection.	\$25,000
2001	P.I. for the contract <i>Restoration of Jones Swamp II</i> , funded by Escambia County, Florida.	\$8,000
2001	Author and P.I. of the proposal <i>Ecological studies of apple snails in the Everglades</i> , funded by the Faculty Small Grants Award Program, Office of Grants and Research, University of West Florida	\$2,000
2000	P. I. for the contract <i>Restoration of Jones Swamp</i> , funded by Escambia County, Florida. (Original P. I. and proposal author: Dr. J. Kavanaugh).	\$8,000
2000	Author and P.I. of the proposal <i>Impact of feral pigs on seepage bogs in northwest Florida wetlands</i> , funded by the Summer 2000 University Research Award Program, University of West Florida.	\$6,000
1998- 2000	Author and co-P. I. of the proposal <i>Dry down tolerance of the Florida apple snail: effects of age and season</i> , funded by the USGS-Biological Research Division.	\$115,400
1995- 1998	Primary author and project manager (as Ph.D. candidate) of the proposal <i>Assessing the impact of the Lake Kissimmee restoration on apple snails</i> , funded by the Florida Game and Fresh Water Fish Commission, Bureau of Nongame Wildlife. (P.I.: H. F. Percival).	\$22,000
1995- 1998	Co-author and project manager (as Ph.D. candidate) of the proposal <i>Ecological studies of apple snails</i> , funded by the South Florida and the St. Johns River Water Management Districts. (Co-P.I.: H. F. Percival and W.M. Kitchens; Co-author R. Bennetts).	\$240,000

## Presentations and Posters

- 26 **Darby, P.C.** *Invited Speaker*. 2008. Apple snail demography, status and trends. South Florida Ecosystem Restoration Working Group, Coral Springs, FL. 21 October 2008.
- 25 **Darby, P.C.** *Invited Speaker*. 2008. Quantitative aspects and logistical challenges in sampling Florida apple snails. Program in Environmental Statistics Seminar Series, University of Florida, Gainesville, FL, 19 March 2008.
- 24 **Darby, P.C.** *Invited Speaker*. 2007. Ecological constraints on apple snail demography. Everglades Avian Workshop, Florida International University, 14 August 2007.
- 23 Collins, T. and **Darby, P. C.** 2007. Non-native apple snails in Florida: 2007 update. The 12th Annual Exotic Species Workshop for Southwest Florida, Naples, FL. 7 December 2007.

- 22 **Darby, P. C.** 2007. *Invited Speaker*. Population trends and impacts of non-native apple snails on Lake Tohopekilega. Invasive Wildlife Symposium, Largo, FL. 31 July 2007.
- 21 **Darby, P. C.** 2007. *Invited Speaker*. Ecological constraints on apple snail demography. Everglades Avian Ecology Forum, Miami, Florida, 13-15 August 2007.
- 20 **Darby, P. C.** 2007. *Invited Speaker*. Exotic Wildlife Workshop, University of Florida Extension Office, Largo, FL, 31 July 2007.
- 19 **Darby, P. C.** 2007. *Invited Speaker*. Effects of habitat, hydrology and water chemistry on apple snails in A.R.M. Loxahatchee NWR. USFWS A.R.M. Loxahatchee NWR Science Workshop, Palm Beach, Florida, 14 May 2007.
- 18 Glass, N.H. and **P.C. Darby**. 2007. *Poster*. Calcium and pH effects on the growth and shell integrity of Florida apple snails. 2007 Annual Meeting of the Florida Academy of Sciences, St. Petersburg, FL, 16 March 2007.
- 17 **Darby, P. C.** 2006. Apple snails as indicators of restoration success. Greater Everglades Ecosystem Restoration Conference. 8 June, Orlando, FL.
- 16 **Darby, P. C.** . Everglades restoration from a snail and kite perspective. Delaware Museum of Natural History, Wilmington, DE, 5 July 2006.
- 15 **Darby, P.C.** *Invited Speaker*. 2005. Status of apple snail populations in southern Florida and recent research on snail predation and effects of water chemistry. Presented December 16, 2005 at the First Annual Everglade Snail Kite and Apple Snail Management Workshop, Kissimmee, FL.
- 14 Corrao, N.M., **P.C. Darby**, and C.M. Pomory. 2004. Nitrate impacts on the Florida apple snail. (*Pomacea paludosa* Say) survival and growth. Presented August 3, 2004 at the 70<sup>th</sup> Annual Meeting of the American Malacological Society, Sanibel Island, FL.
- 13 Ren, A., L. Karunaratne, **P. Darby**, and R. Bennetts. 2004. *Poster*. Status of Apple Snails at Arthur R. Marshall Loxahatchee National Wildlife Refuge. Presented May 18, 2004 at a Public Science Form, A.R.M. Loxahatchee National Wildlife Refuge, Boynton Beach, FL.
- 12 **Darby, P.C.** 2003. Quantifying characteristics of apple snail demography and distribution in the Everglades. Presented October 30, 2003 to the Department of Mathematics and Statistics, University of West Florida, Pensacola, FL.
- 11 Bennetts, R.E., **P.C. Darby** and L.B. Karunaratne. 2003. Apple snail habitat associations in the Everglades. Annual meeting of the Society of Wetland Scientists, New Orleans, LA.
- 10 **Darby, P.C.** 2003. *Invited Speaker*. Life history and current state of knowledge of the apple snail. Sustainable Ecosystems Institute Multi-species Avian Ecology Workshop. Key Largo, FL.

- 9 Ostertag, T.E. and **P.C. Darby**. 2002. *Poster*. The role of seed banks in the restoration of wet flatwoods periodically subjected to fire. 2002 Annual Meeting of the Society of Wetland Scientists, Lake Placid, NY, June 2-7, 2004.
- 8 **Darby, P.C.** 2002. *Invited Speaker*. Unraveling the mystery of the elusive apple snail. Grassy Waters Nature Preserve, West Palm Beach, FL.
- 7 Sternberg, R.S., D.S. Ruessler, C.M. Wieser, **P. Darby**, and T.S. Gross. 2001. Development of the apple snail as an indicator of contaminant exposure and endocrine disruption. Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Baltimore, MD.
- 6 **Darby, P.C.** and H. F. Percival. 2000. Apple snail populations: persistence in hydrologically fluctuating environments. Session in Ecology and Ecological Monitoring. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.
- 5 **Darby, P.C.** 2000. Snails and snail kites: a lesson in population ecology. Science Seminar for Superior High School Students. University of West Florida, Pensacola.
- 4 **Darby, P.C.** and H. F. Percival. 1999. Water management for apple snails in Florida: population persistence in hydrologically fluctuating environments. Annual Meeting of the American Water Resources Association, Seattle, WA.
- 3 **Darby, P.C.**, P.L. Valentine-Darby and H. F. Percival. 1998. Apple snail (*Pomacea paludosa*) survival and recruitment following an extreme draw down of Lake Kissimmee. Seventh Annual Southeast Lakes Management Conference. Orlando, FL.
- 2 **Darby, P.C.**, P. L. Valentine-Darby and H. F. Percival. 1997. *Poster*. Florida apple snail movement patterns and survival during wetland drying events. Annual Meeting of the Ecological Society of America. Albuquerque, NM.
- 1 **Darby, P.C.**, R.T. Di Giulio, and E. P. Gallagher. 1990. *Poster*. Antioxidant responses in the wedge clam (*Rangia cuneata*) exposed to t-butyl hydroperoxide. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Washington, D.C.

## Courses Taught at UWF

- 2005-  
Present **Quantitative Ecology**, 3 credit hrs. University of West Florida. Dual listed undergraduate and graduate level course. Responsible for all aspects of the course. Topics include sampling design, mark-recapture, quadrat sampling, line transect and distance sampling, and survival estimation. Instructed 1 section totaling 2 undergraduate and 7 graduate students.
- 2003 **Wetland Plant Identification I**, 1 credit hr. University of West Florida. I initiated the development of a new series of field and lab courses that I team-taught with our herbarium curator, Mr. Jim Burkhalter. The series was designed to serve students as well as local professionals that need plant identification skills (i.e., wetlands delineators and natural resource managers). Instructed 1 section with 10 students.
- 2000- **Wetlands Ecology with Lab** (PCB 4442/L and PCB 5446/L), 4 credit hrs. University

- Present of West Florida. Dual listed undergraduate and graduate level course. Responsible for all aspects of the course. Topics include hydrology, biogeochemistry, plant community development, wetlands wildlife ecology, and wetlands restoration/management. Instructed 3 sections totaling 13 undergraduate and 20 graduate students.
- 2000-  
Present **Animal Behavior** (ZOO 4513/5514), 3credit hrs. University of West Florida. Dual listed undergraduate and graduate level course. Responsible for all aspects of the course. Topics include research methods in behavior, foraging, habitat selection, migration, communication, mating systems, parental care, and social behaviors. Instructed 4 sections with a total of 137 undergraduate and 25 graduate students.
- 1999-  
Present **General Biology for non-majors**. 3 credit hrs. University of West Florida. Responsible for all aspects of the course. Topics include scientific method, cell structure and function, photosynthesis, metabolism, physiology, population ecology. Instructed over 15 sections and over 1900 students.
- 1999-  
Present **General Biology Lab for non-majors**. I overhauled the laboratory protocols to compliment the lecture material. We have up to 10 lab sections per semester; in some semesters I also serve as lab coordinator.
- 1999-  
Present **Directed Independent Studies** (PCB or ZOO 4905 or 6905). 1-3 credit hrs. I have supervised 16 students in developing and executing directed independent studies. Topics have included wetland plant ecology, impacts of beach renourishment, aquatic insect ecology, oyster farming, wetlands restoration, and animal behavior research.

### Courses/Lectures Taught Prior to UWF

- 1998 **Natural Resource Sampling with Lab** (FNR 4410), 3 credit hrs. University of Florida. Responsible for teaching 8 lectures and 4 associated labs dealing with sampling theory / methods for wildlife research. Responsible for developing lecture/lab materials and evaluating students for my portion of the course. Topics included mark-recapture studies, aerial surveys, telemetry, and estimating home ranges. Instructed 1 lecture and 2 lab sections with a total of 63 students.
- 1997 **Wildlife Invasions** (WIS 4545), 3 credit hrs. University of Florida. Volunteered as a teaching assistant and guest lectured twice during the semester. This course included an in-class student body as well as a class watching on live TV from Milton, FL.
- 1992 **Natural Resource Conservation** (FW 221), 3 credit hrs. North Carolina State University. Responsible for all aspects of the course. Topics included forestry, soil conservation, fisheries, wildlife management, endangered species, and ecotoxicology. Instructed 1 section with 17 students.
- 1989 **Environmental Physiology**. Duke University. Volunteered to developed and present one guest lecture during the semester.

### Theses Directed

**Dominique Gueringer**, University of West Florida (BS, honors thesis), *Graduated*

*Spring 2008.*

**Nancy Glass**, University of West Florida (MS). Served as thesis committee chair. *Graduated Spring 2007.*

**Lori Deneke**, University of West Florida (MS). Served as thesis committee chair (original chair left the department) *Graduated Fall 2006.*

**Laksiri Karunaratne**. University of West Florida (MS). Served as thesis committee chair. *Graduate Spring 2005.*

**Tom Ostertag**, University of West Florida (MS). Served as thesis committee chair. *Graduated Spring 2004.*

**Lori Vance**, University of West Florida, (MST). Served as her committee chair for her Masters of Science in Teaching degree in Biology. *Graduated December 2002.*

### **Other Students Under My Direct Supervision**

**CJ Carroll**, University Florida (BS). She received a \$1,000 honors grant to do a lab study under my supervision in 2007.

**Sarah Kell**, University Florida (BS). I supervised Sarah to work on lab studies of apple snail predation. She also assisted in the field in May/June 2006.

**Tiffany Trent**, University of West Florida (BS). I supervised Tiffany on apple snail research grants. I arranged an internship with the USFWS for her for Spring 2005.

**Sara LaPorte**, University of West Florida (MS). I supported Sara through two different research grants as part of my apple snail research program. We have a publication in review.

**Norah Myers**, University of West Florida (MS) I supported Norah through a research grants as part of my apple snail research program from which she created her thesis and was first author on a subsequent publication.

**Tanya Alvarez**, University of West Florida (BS) biology undergraduate student (BS 2003) at UWF who assisted on several field and laboratory projects. I arranged an internship with the USFWS for her for Summer 2003.

**Alex Ren**, University of West Florida (BS). I supervised Alex on apple snail research grants. I arranged an internship with the USFWS for him for Spring 2004. He co-authored a poster presented at a public science forum hosted by USFWS.

**Amanda Stevens**, University Florida (BS). I supervised Amanda to work on lab studies of apple snail survival and guided her through publication of two manuscripts.

**Zach Welch**, University Florida (BS). I supervised Zach to work on laboratory studies of apple snail survival and he was co-author on one published manuscript.

**Jason Croop**, University of Florida (MS). I supervised Jason's field work for the 2nd season of his thesis work on apple snails. He co-authored one published manuscript.

## **Service Activities**

### *Service to the Department of Biology at UWF*

- 2007-2008     **Chair, Search Committee for Marine Ecology Faculty**, Department of Biology
- 2006-  
present       **Chair, Biology Tenure and Promotion Committee**, Department of Biology
- 2000-  
present       **Member, Thesis committees** for Carrie Stevenson, Sarah LaPorte, Norah Corrao, Michael Dance, Karon Radznik, Jodie Rummer, Sarah Branson, Nicole Morris, Wes Keller, Kerry Flaherty, Cecelia Louder.
- 2002-2003     **Member, Search Committee**, Marine Vertebrate Zoologist, Department of Biology
- 2001-2006     **Member, 5 Year Planning Committee**, Department of Biology
- 2000-2001     Participated in **Freshman Orientation** and met one-on-one with prospective students, June 2001 and June 2000
- 2000-2001     **Member, Search Committee**, Chair of Biology, Department of Biology
- 2000-2008     **Representative for Marine Biology, UWF Open Houses**
- 2000           **Representative for Biology**, for H.S. students recruitment 11/9/2000
- 1999-2000     **Member**, planning committee for Biology Research & Greenhouse Facility
- 2000           **Participant**, Greenhouse Clean-Up on February 19, 2000

### *Service to the University of West Florida*

- 2006-2007     **Member, Trails Usage Committee** (subcommittee to ECBC, below)
- 2005-2008     **Member, Environmental Conservation and Beautification Committee**
- 2000-Present   **Member, General Studies Committee** (sub-committee to Faculty Senate)

### *Professional Service*

- 2002-2008     **Member, Dissertation Committee** for Emily Rogevich (Florida Atlantic Univ.), and **Thesis Committees** for Tiffany Trent (NOVA Southeastern), Zach Welch

(Univ. of Florida), and Chris Cattau (Univ. of Florida).

- 2006 **Moderator, Workshop on Wildlife and Fauna**, Greater Everglades Ecosystem Restoration Science Conference, Orlando, FL, 8 June 2006.
- 2006 **Invited Panelist**, Defining Success Part 3- Species as indicators of restoration success. Greater Everglades Ecosystem Restoration Science Conference, Orlando, FL, 8 June 2006.
- 2009 **Guest Editor, Southern Naturalist**
- 2008 **Reviewer** for a manuscript submission to **Hydrobiologia**
- 2008 **Reviewer** for a manuscript submission to **Auk**
- 2007 **Reviewer** for a proposal submission to **Florida's State Wildlife Grants Program**
- 2007 **Reviewer** for a manuscript submission to **Hydrobiologia**
- 2007 **Reviewer** for a manuscript submission to **Wetlands**.
- 2004 **Reviewer** for a manuscript submission to **The Wilson Bulletin**.
- 2004 **Reviewer** for a proposal submission to **National Fish and Wildlife Foundation** titled "Power of Flight's Natural Encounters".
- 2003 **Reviewer** for a 205-page annotated bibliography submission to **Nemouria**.
- 2003 **Reviewer** for a Phase-II proposal submission (related to invasive aquatic snails) to **USDA Small Business Innovation Research Program**
- 2001 **Reviewer** for a Phase-I proposal submission (related to invasive aquatic snails) to **USDA Small Business Innovation Research Program**
- 2000 **Reviewer** for a manuscript submission to the **Journal of Molluscan Studies**.

#### *Public Service*

- 2001-Present **Liason with NW Florida Blood Bank**. Initiated contact with NW Florida Blood Bank to visit my General Biology classes to encourage blood donation.
- 2001-2004 **Science Fair Judge**, 46<sup>th</sup> and 48<sup>th</sup> Annual West Florida Regional Science Fairs and Epsicopal Day School of Christ Church Parish Science Fair in 2003 and 2004.

#### **Miscellaneous Training and Experience**

- 2007 **Workshop (20-hr), Modeling Patterns and Dynamics of Species Occurrence-Occupancy**, conference call and on-line via US Geological Survey.
- 2006 **Workshop (20-hr), Designing Natural Resource Monitoring Surveys**, conference call and on-line via US Geological Survey and National Park Service.
- 2005 **Motorboat Operator Certification Course**, US Dept. of Interior, Flamingo, FL
- 2003 **Florida State Delineation Method**, 2-day Workshop, Tampa, FL
- 2003 **Florida Laws Effecting Wetland Boundaries**, 1-day Workshop, Pensacola, FL

- 2001      **Hydric Soils**, 1-day Workshop, Naples, FL.
- 1999      **Program Mark** (for mark-recapture analysis), Training Workshop, Colorado State University, Ft. Collins, CO, June 7-13, 1999
- 1994      **Basic Helicopter and Airplane Safety**, US Dept. of the Interior, Gainesville, FL
- 1984-1987      **Volunteer** to assist MS degree students Sue Yocum and Martin Ogle and Dave Luukkonen in the Department of Wildlife, Virginia Tech.
- 1982      **Fire Fighter Training**, National Forest Service, Blacksburg District, Va Tech, Blacksburg, VA, Oct. 11-13.