

John Herbert

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Education

Ph.D. Entomology, University of Florida 2009

Concentration: Biological control and ecological interactions

Dissertation title: Multitrophic Interactions among Crapemyrtles,
Lagerstroemia spp., Crapemyrtle Aphids, *Sarucallis*
kahawaluokalani, and Aphid Predators

Advisor Dr. R. F. Mizell III

MS Entomology, The Ohio State University 2004

Concentration: Biological control of aphids

Thesis title: The Impact of Ant Attendance by *Monomorium minimum*
Buckley, 1867 (Hymenoptera: Formicidae) on Natural
Enemies of the Soybean Aphid *Aphis glycines* Matsumura,
1917 (Hemiptera: Aphididae)

Advisor: Dr. David J. Horn

BS Biology, The Ohio State University 1999

Work Experience

Research Assistant (2005-present)

University of Florida, Supervisor Dr. R. F. Mizell III

- Lead research on tritrophic interactions for aphids and their predators
- Landscape ecology
- Biological control and pest management.

NSF Fellowship, Science Partners in Inquiry-Based Collaborative Education (SPICE) Type II Fellow, (2007-2008)

Center of Precollegiate Education and Training, University of Florida

National Science Foundation GK-12 Program

Supervisor: Dr. Doug Levey

- Mentoring a first year fellow in teaching and planning middle school science lessons.
- Teaching two days per month in a sixth grade science class covering earth and space science. Teacher: Dale Witt.

NSF Fellowship, SPICE Type I Fellow, 2006-2007

Center of Precollegiate Education and Training, University of Florida
National Science Foundation GK-12 Program

Supervisor: Dr. Doug Levey

- Teaching and planning 7th grade science lessons. Teaching consisted of 10 contact hours or two full days of teaching per week for one full school year at Oakview middle school in Newberry Florida. Teacher: Zoellen Warren.
- Producing a teaching module aimed at 7th grade life science consisting of multiple lessons and laboratory activities on the structure, function and reproduction of the cell
 - Title: Cellular Nation, available online at <http://www.spice.centers.ufl.edu/Modules.html>
- Mentoring students through clubs and science projects outside of the classroom

Teaching Assistant, Winter 2006

Department of Entomology and Nematology, University of Florida

Course: Entomology 3005, Principles of Entomology

Instructor: Dr. Carl S. Barfield

- Teach laboratory exercises including: insect morphology, insect collecting, and proper curation of insect collections

Teaching Assistant, Winter 2004

Department of Entomology, The Ohio State University

Course: 102 Insect Biology II

Instructor: Dr. David J. Horn

- Preparation of laboratory exercises
- Perform lectures as needed by instructor

Teaching Assistant, Autumn 2003, Summer and Autumn 2002

Department of Entomology, The Ohio State University

Course: Entomology 500, General Insect Entomology

Instructor: Dr. Woodbridge A. Foster

- Perform 1/3 of class lectures
- Curate insect teaching collection
- Teach proper preparation, identification and curation of insects
- Organize field trips for insect collecting
- Preparation and grading of laboratory practical examinations in insect morphology and identification
- Administration and grading of examinations.

Teaching Assistant, Summer 2003.

Department of Entomology, The Ohio State University. Stone Laboratory, South Bass Island Lake Erie.

Course: Entomology 126, Introductory Insect Biology

Instructor: Dr. Chris Stanton

- Teach college and high school students insect identification
- Lead field trips to islands on Lake Erie

Teaching Assistant, Spring 2003.

Department of Entomology, The Ohio State University

Course: Entomology 650 Biological Control of Arthropod Pests

Instructor: Dr. David J. Horn

- Prepare laboratory field exercises for evaluating insect populations and biological control agents
- Lectures as needed
- Technical support for ecology software

Teaching Assistant, Winter 2002

Department of Entomology, The Ohio State University

Courses: Entomology 642, Insect Behavior, Entomology 461, Forest Entomology

Instructors: Dr. P. Larry Phelan, Dr. David J. Horn (respectively)

- Lecture during instructor's absence
- Technical support for computer programs used in laboratory exercises

Teaching Assistant, Spring 2002, Autumn 2000-Autumn2002

Introductory Biology Program, The Ohio State University.

Course: Biology 101, Introductory Biology

Supervisors: Steve Lawton, Matt Misicka

- Lead recitation sessions to clarify lecture topics
- Prepare and teach laboratory exercises that focused on learning through discovery and working in groups

Teaching Assistant, Winter 2002.

Introductory Biology Program, The Ohio State University.

Course: Biology 102, Human Biology-A Case Studies Approach

Supervisor: Matt Misicka

- Lead discussions with students about politically charged topics in biology including global warming, HIV/AIDS pandemic, and ecological footprints
- Assign and grade essays associated with these topics

Insectary Assistant, Summer 2003.

The Ohio State University.

- Help with the insectary outreach program by giving tours of the insectary
- Rearing The American Burying Beetle that is currently listed as a federally endangered species for reintroduction into Ohio

Substitute Teacher, 2000

Centerville City Schools.

- Instruct high school students in biology and other science oriented courses.

Publications

- **Herbert, J. J., R. F. Mizell III., and H. J. McAuslane 2009.** Host preference of the crapemyrtle aphid (Hemiptera: Aphididae) and host suitability of crapemyrtle cultivars *Environmental Entomology*. In press.
- **Herbert, J. J., and D.J. Horn 2008.** Effect of Ant Attendance by *Monomorium minimum* (Buckley) (Hymenoptera: Formicidae) on Predation and Parasitism of the Soybean Aphid *Aphis glycines* Matsumura (Hemiptera: Aphididae). *Environ. Entomol.* 35: 1258-1263
- **Herbert, J. J., and R. F. Mizell III. 2006.** Crapemyrtle aphid *Sarucallis kahawaluokalani* (Kirkaldy). Featured Creature, University of Florida

Presentations

- Herbert, John J. 2008. Using PROC GLIMMIX and ODS graphics in SAS. Presented on August 21, 2008.
- Mizell, R. F., J. J. Herbert, D. Paini, and C. Gomez. Investigating landscape level movement by insect predators and its potential exploitation for enhancing biological control
 - Experimental design of one experiments, data analysis and interpretation of GIS and spatial data.
- Herbert, J., R. F. Mizell, and T. C. Riddle 2008. Influence of habitat structure on lady beetle predators of the crapemyrtle aphid *Sarucallis kahawaluokalani*. Southeastern Branch Meeting of the Entomological Society of America.
- Herbert, J. J., and R. F. Mizell. 2007. Tritrophic Interactions: The effect of crape myrtle cultivar (*Lagerstroemia* spp.) on the crapemyrtle aphid (*Sarucallis kahawaluokalani*) and the green lacewing (*Chrysoperla rufilabris*). Poster at NSF Fellows Day. The University of Florida.
- Herbert, J. J., and R. F. Mizell III. 2007. Effect of crape myrtle *Lagerstroemia* spp. parentage on its suitability as a host for the crape myrtle aphid *Sarucallis kahawaluokalani* Southeastern Branch Meeting of the Entomological Society of America.
- Leafhopper visual response to conspecifics and models; implications for mycopathogen epidemiology. (Authored by: Russell F. Mizell, Presented by: John J. Herbert), Entomological Society of America annual meeting, Fort Lauderdale Florida, December 18, 2006.
- The Ohio Coleopterists Beetle Data Base, Oral presentation, Ohio Natural History Conference, Columbus OH, February 28, 2004.
- The impact of ant attendance on the ability of natural enemies to control the soybean aphid *Aphis glycines* Matsumura (Heteroptera: Aphididae) Poster, Entomological Society of America annual meeting, 2003.

Professional Memberships

- Entomological Society of America
- Florida Entomological Society
- Ohio Coleopterists

Awards

- Competent Communicator Award, Toastmasters International, May 2008
- Robert T. Gast Award. 2007 Best Ph.D presentation at the South Eastern Branch Annual Meeting, Entomological Society of America
- Mary Ellen Clay Teaching Award, Department of Entomology, The Ohio State University, 2003
- Phi Kappa Phi Honor Society Inducted in 2001

Service Activities

- Captain of the Linnaean Team University of Florida 2007-2008.
- Vice President of the Entomology Nematology Student Organization. University of Florida 2007-2008.
- Vice president of Membership, Toastmasters International 2006-2007.
- President Entomology Graduate Student Association Ohio State University 2003-2004.
- Vice President/Secretary The Ohio Coleopterists 2003-2004.
- Chairman Seminar Committee Ohio State University Department of Entomology winter 2004.
- Volunteer, Insect Fair, Columbus Zoo, Columbus OH. 2001-2003