

Michael H. Reiskind

Work

Florida Medical Entomology Laboratory
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Education

- June 1995** **Bachelor of Arts *magna cum laude*, Amherst College, Amherst, MA.**
Thesis title: “*Effects of timing of transmission on pathogenicity in a nuclear polyhedrosis virus of gypsy moth larvae (Lymantira dispar).*”
Advisor: Paul W. Ewald, Department of Biology, Amherst College
- May 1999** **Masters in Public Health, The University of Michigan, Ann Arbor, MI.**
Thesis title: “*Epidemiological and ecological characteristics of past dengue fever virus infection in Santa Clara, Peru.*”
Advisor: Mark L. Wilson, School of Public Health, Department of Epidemiology, The University of Michigan.
- May, 2005** **PhD in Biology, The University of Michigan, Ann Arbor, MI.**
Dissertation title: “*Oviposition behavior and larval ecology of Culex mosquitoes in southeastern Michigan.*”
Committee:
Chair: Mark L. Wilson, School of Public Health, Department of Epidemiology, The University of Michigan.
Members: Beverly J. Rathcke, Department of Ecology and Evolutionary Biology, The University of Michigan.
Earl E. Werner, Department of Ecology and Evolutionary Biology, The University of Michigan.
Michael J. Wiley, School of Natural Resources and the Environment, The University of Michigan.

Research Experience (outside of degree related research)

- Summer 1999** **Field Assistant, Michigan State University.** Mapped suitable larval habitat of *Culiseta melanura* as part of investigation into eastern equine encephalitis virus with Edward Walker, Department of Entomology, Michigan State University.

October 2005 to present **Post-Doctoral Associate, Florida Medical Entomology Laboratory**, University of Florida. Advisor: L. Philip Lounibos.
Funded under NIH AI-044793 to L. Philip Lounibos, to study the ecology of the invasive mosquito *Aedes albopictus* and its relation to native mosquito fauna and virus transmission.

Teaching Experience

The University of Michigan

Fall 1999, Fall 2002 **Graduate Student Instructor. Biology of Cancer (Biology 324)**. Writing coach for over 100 students. Helped students develop 15 page research paper and responsible for grading papers and exams.

Winter 2000 **Graduate Student Instructor. Parasitology (Biology 341)**. Responsible for two laboratory sections/week, and grading exams and research papers.

Spring 2000 **Graduate Student Instructor. Genetics (Biology 305)**. Responsible for two two-hour discussion sections a week and grading three exams, during a shortened semester.

Winter 2002 **Graduate Student Instructor. Evolutionary Biology and Human Health (Biology 262)**. Responsible for lesson plans for two discussion sections a week and grading exams and research papers.

Winter 2003 **Guest lecturer, Evolutionary Biology and Human Health (Biology 262)**. “Use of models in understanding evolution and disease.”

Fall 2004 **Guest lecturer, Ecology (Biology 281)**. “Competition”.

Fall 2004 **Graduate Student Instructor. Ecology (Biology 281)**. Responsible for lesson plans for two discussion sections per week.

University of Florida

Fall/Winter 2005 **Lecturer. Advanced Mosquito Biology (Entomology 6905)**. “Eggs”, and “Larvae”, with L. Phil Lounibos.

Fall 2007

Instructor. Seminar in Medical Entomology (Entomology 6942). Organized seminar course with Chelsea Smartt, Chris Vitek, and Stephanie Richards

Fellowships

Spring 2000-Spring 2002

Pre-Doctoral NSF-IGERT Fellowship: Biosphere-Atmosphere Research and Training (BART). Competitive NSF program through the University of Michigan Biological Station. \$49,000.

Spring 2003-Summer 2004

Pre-Doctoral Molecular and Clinical Epidemiology Fellowship (MAC-EPID). Competitive NIH supported pre-doctoral fellowship program. \$48,000.

Spring 2005

Rackham Dissertation Fellowship. Competitive grant for final semester of dissertation writing. \$15,000.

Research Awards

Summer 1998

International Institute Summer Travel Fellowship. Provided travel funds for research in Peru on dengue fever epidemiology. \$1,800.

Summer 2000

Rackham Faculty-Student Collaboration Grant (with M.L. Wilson, awarded but not accepted to take BART fellowship). \$6,000.

Summer 2000-2004

Department of Ecology and Evolutionary Block Grant. Competitive research funds for studying oviposition behavior of *Culex* mosquitoes. Total awards: \$5,200.

Summer 2004

E.S. George Reserve Fellowship. Competitive research funds for examining bat predation on mosquitoes. \$2,500.

Publications

- Reiskind, M.H.** and Lounibos, L.P. 2008. Intraspecific competition and adult survival in *Aedes aegypti* and *Aedes albopictus*. *Submitted to Medical and Veterinary Entomology*.
- Pesko, K., Westbrook, C.J., Lounibos, L.P., Mores, C.N. and **Reiskind, M.H.** 2008. Effects of infectious virus dose and blood meal delivery method on susceptibility of *Aedes aegypti* and *Aedes albopictus* to chikungunya virus. *Submitted to Journal of Medical Entomology*.
- Reiskind, M.H.**, Green, K.E., and Lounibos, L.P. 2008. Leaf species composition and identity affect performance and oviposition choice of two container mosquito species. *In revision at Ecological Entomology*.
- Alto, B.W., **Reiskind, M.H.**, and Lounibos, L.P. 2008. Size alters susceptibility of dengue vectors to infection and dissemination. *In revision at American Journal of Tropical Medicine and Hygiene*.
- Reiskind, M.H.**, Pesko, K., Westbrook, C.J. and C.N. Mores. 2008. Susceptibility of Florida mosquitoes to chikungunya virus. *American Journal of Tropical Medicine and Hygiene* 78 (3): 422-425.
- Reiskind, M.H.** and M.L. Wilson. 2008. Interspecific competition between larval *Culex restuans* Theobald and *Culex pipiens* L. (Diptera: Culicidae) in Michigan. *Journal of Medical Entomology* 45(1): 20-27.
- Alto, B.W., Lounibos, L.P., Mores, C.N. and **Reiskind, M.H.** 2008. Larval competition alters susceptibility of adult *Aedes* mosquitoes to dengue infection. *Proceedings of the Royal Society Biological Sciences* 275: 463-471.
- Reiskind, M.H.**. 2007 Book Review of Vector- and Rodent-borne Disease in Europe and North America, by Norman Gratz. *Florida Entomologist* 90(3): 589-590.
- Reiskind, M. H.**, E. T. Walton, and M. L. Wilson. 2004. Nutrient-dependent reduced growth and survival of larval *Culex restuans* (Diptera: Culicidae): Laboratory and field experiments in Michigan. *Journal of Medical Entomology* **41**:650-656.
- Reiskind, M. H.**, and M. L. Wilson. 2004. *Culex restuans* (Diptera: Culicidae) oviposition behavior determined by larval habitat quality and quantity in southeastern Michigan. *Journal of Medical Entomology* **41**:179-186.
- Vandermeer, J., M. A. Evans, P. Foster, T. Hook, M. **Reiskind**, and M. Wund. 2002. Increased competition may promote species coexistence. *Proceedings of the National Academy of Sciences of the United States of America* **99**: 8731-8736.

Cooper, V. S., M. H. **Reiskind**, J. A. Miller, K. A. Shelton, B. A. Walther, J. S. Elkinton, and P. W. Ewald. 2002. Timing of transmission and the evolution of virulence of an insect virus. *Proceedings of the Royal Society of London Series B-Biological Sciences* **269**:1161-1165.

Reiskind, M. H., K. J. Baisley, C. Calampa, T. W. Sharp, D. M. Watts, and M. L. Wilson. 2001. Epidemiological and ecological characteristics of past dengue virus infection in Santa Clara, Peru. *Tropical Medicine & International Health* **6**:212-218.

Contributed Papers, Posters and Presentations

- Reiskind, MH. Mosquito-borne disease at multiple scales. 2008. Invited seminar, Oklahoma State University, Stillwater, Oklahoma.
- Reiskind, MH. 2007. "Species coexistence of *Aedes aegypti* and *Aedes albopictus* in southern Florida: effects of time and space." Entomological Society of America Annual Meetings, San Diego, California.
- Reiskind MH, Greene, KN, and Lounibos, LP. 2007. "Leaf Litter Species Affects Fitness and Oviposition Behavior of Container Mosquitoes". Entomological Society of America Annual Meetings, San Diego, California.
- Reiskind, MH, Pesko, K, Westbrook, CJ and Mores, CN. 2007. "Vector competence of Florida *Aedes aegypti* and *Ae. albopictus* for La Réunion strain (LR2006-ORY) of chikungunya virus." American Society of Tropical Medicine and Hygiene Annual Meetings, Philadelphia, PA.
- Reiskind MH and Lounibos, LP. 2007. "Testing hypotheses of seasonal coexistence or displacement in two *Aedes* mosquitoes along an urban/suburban gradient". Ecological Society of America Annual Meetings, San Jose, CA.
- Reiskind, MH and Wund, MA. 2006. "The effects of bats on mosquito oviposition." Entomological Society of America, North Central Branch Meetings, Normal, Illinois.
- Reiskind, MH and Wilson, ML. 2005. "Interspecific competition between larval *Culex restuans* (Theobald) and *Cx. pipiens* (L.)." Entomological Society of America Annual Meeting, Fort Lauderdale, Florida.
- Reiskind, MH and Wilson, ML. 2004. "Oviposition behavior of *Culex restuans* in southeastern Michigan: effect of habitat abundance." Society of Vector Ecology Annual Meetings, Coeur d'Alene, Idaho.
- Reiskind, MH and Wilson, ML. 2004. "Oviposition behavior of *Culex restuans*." Michigan Mosquito Control Association Annual Meetings, Lansing, Michigan.
- Reiskind, MH and Kache, P. 2001. "Spatial patterns of three mosquito species and associations with rainfall amount in Saginaw County, Michigan." Michigan Mosquito Control Association, Annual Meetings, Ann Arbor, MI

Reiskind, MH and Wilson, ML. 1999. "Epidemiological and ecological characteristics of past dengue virus infection in Santa Clara, Peru". American Society of Tropical Medicine and Hygiene Annual Meetings, Washington, D.C.

Reiskind, MH. 1999. "Larval site finding and land use cover for *Culiseta melanura* in south east Michigan." Michigan Mosquito Control Association, Annual Meetings, Shanty Creek, Michigan.

Service

- 2002-5 Scientific Advisor, Washtenaw County West Nile Task Force.**
Assisted an inter-agency task force in dealing with the West Nile virus epidemic in Washtenaw County, Michigan.
- 2002-3 Graduate student representative: Seminar Committee.** Department of Ecology and Evolutionary Biology, the University of Michigan.
Responsible for organizing seminars, contacting potential speakers and scheduling meetings between speakers and students.
- 2003-4 Graduate student representative: Executive Committee.** Department of Ecology and Evolutionary Biology, the University of Michigan.
Responsible for collecting and offering graduate student input on all major decisions in the department at weekly committee meetings.
- 2004-5 Graduate student representative: Graduate Affairs Committee.**
Department of Ecology and Evolutionary Biology, the University of Michigan. Responsible for graduate student input on issues concerning the graduate program. Also responsible for the review of all internal grant applications.

Reviewer for: Ecology, Journal of Medical Entomology, Journal of Vector Ecology, Hydrobiology, Southeastern Naturalist, Tropical Medicine and International Health, and Journal of Insect Behavior

Other Skills

Competent in Spanish, SAS, SPSS, and ArcMap. Certified to work with select agents at Biosafety Level-3 (BL3), with personal air protection (PAPR).

References

Dr. Mark L. Wilson (dissertation advisor)
Department of Epidemiology
School of Public Health
The University of Michigan
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Ann Arbor, Michigan 48109-2029

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Dr. L. Philip Lounibos (post-doctoral advisor)

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Dr. Walter Tabachnick (Director of Florida Medical Entomology Laboratory)

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Dr. Beverly Rathcke (committee member)

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Dr. George O'Meara (Assistant Director, Florida Medical Entomology Laboratory).

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