

# Peter T Oboyski

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## **Education:**

PhD in Insect Biology, University of California, Berkeley CA, anticipated December 2007  
MS in Entomology, Oregon State University, Corvallis OR, December 1995  
BS in Ecology & Evolutionary Biology, University of Connecticut, Storrs CT, June 1991

## **Honors, Awards, Positions Held:**

Curatorial Fellow, Essig Museum of Entomology, UC Berkeley, 2004-2005  
Walker Fund for systematics research in entomology, UC Berkeley, 2002, 2003, 2004, 2005  
Freitag Award for outstanding Ph.D. candidate, UC Berkeley, 2003-2004  
Outstanding Graduate Student Instructor, UC Berkeley, 2003-2004  
GK-12 Teaching Fellow, National Science Foundation, UC Berkeley, 2003-2004  
Entomology Students Organization, President, UC Berkeley, 2003-2004  
Graduate Assembly, Delegate, UC Berkeley, 2003-2004  
DeWind Award (Xerces Society award for research leading to Lepidoptera conservation) 2003  
Magy Award for excellence in entomological studies, UC Berkeley, 2002-2003  
Keen Award for forest entomology, UC Berkeley, 2001-2002  
Entomology Club, President, Oregon State University, 1994-1995  
Outstanding Entomology Graduate Student Award, Oregon State University, 1994 & 1996

## **Research Experience:**

### August 2001 to present

*Graduate Student Researcher*, University of California, Berkeley. PhD dissertation project - "Systematics, Evolution, Ecology, and Conservation of Hawaiian *Cydia* (Lepidoptera: Tortricidae)." Conducted morphological and molecular analysis to construct a phylogeny and infer patterns of species formation of Hawaiian *Cydia* species via host-plant shifting and vicariance. Determined host-plant relationships and geographic distributions, and documented conservation threats to *Cydia* larvae from loss of habitat, native and alien competitors, and predators.

February 1997 to August 2001

*Entomology Research Specialist*, Research Corporation of the University of Hawaii, Volcano, Hawaii. Project leader for US Geological Survey, Biological Resources Division projects - "The ecology, biology, and restoration of palila (*Loxioides bailleui*)" and "The role of insects in the restoration of Kipuka Alala, Hawaii". Designed and implemented research on the role of insects in the recovery of palila, an endangered Hawaiian forest bird. Designed and implemented research on the potential impacts and mitigation of alien insects (ants, yellowjackets, etc.) as part of an effort to restore the native ecosystem at Kipuka Alala, Pohakuloa Training Area, US Army Garrison, Hawaii. Hired and supervised a crew of four technicians and two interns. Research results were disseminated through technical reports, presentations at entomological and conservation conferences, and peer-reviewed articles (in prep.).

June 1996 to February 1997

*Research Assistant*, Oregon State University, Corvallis, Oregon. Principle research assistant on National Biological Survey project - "Response of microlepidoptera to forest management strategies in Douglas-fir forests in western Oregon." Sampled forest moths in old growth, clear cut, and managed and unmanaged mature stands of Douglas-fir using ultraviolet light traps. Designed and maintained relational databases on caterpillar-host plant interactions and moth distributions.

January 1992 to June 1996

*Graduate Research Assistant*, Oregon State University, Corvallis, Oregon. Masters thesis - "Riparian insect communities on vine maple, red alder, and sitka alder in the central western Cascade Mountains, Oregon."

**Publications:**

Banko PC, **Oboyski PT**, Slotterback JW, et al. 2002. Availability of food resources, distribution of invasive species, and conservation of a Hawaiian bird along a gradient of elevation. *Journal of Biogeography* 29(5-6):789-808

Brenner GJ, **Oboyski PT**, Banko PC. 2002. Parasitism of *Cydia* spp. (Lepidoptera: Tortricidae) on *Sophora chrysophylla* (Fabaceae) along an elevation gradient of dry subalpine forest on Mauna Kea, Hawaii. *Pan-Pacific Entomologist* 78(2):101-109

**Oboyski PT**, Slotterback JW, Banko PC. 2004. Differential parasitism of seed-feeding *Cydia* (Lepidoptera: Tortricidae) by native and alien wasp species relative to elevation in subalpine *Sophora* (Fabaceae) forests on Mauna Kea, Hawaii. *Journal of Insect Conservation* 8(2-3): 229-240

**Technical Reports, etc.:**

Banko PC, Dougill S, Goltz D, Johnson L, **Oboyski PT**, et al. 2001. Palila restoration project annual report 2001. Technical Report to US Army Garrison, Hawaii. US Geological Survey, Biological Resources Division.

Howarth FG, Brenner GJ, Preston DJ, and **Oboyski PT**. 1999. An arthropod assessment within selected areas of Mauna Kea Science Reserve, Final Report. Hawaii Biological Survey. BP Bishop Museum, Honolulu. Technical Report to Institute of Astronomy. 59 pp.

**Oboyski PT**. 1995. Macroarthropod communities on vine maple, red alder, and sitka alder along riparian zones in the central Western Cascade Range, Oregon. MS Thesis. Oregon State University, Corvallis. 50 pp.

**Oboyski PT**. 1998. Inventory of terrestrial arthropods of Pohakuloa Training Area, Hawaii. Technical Report to US Army Garrison, Hawaii. The Nature Conservancy of Hawaii's Natural Heritage Program. Honolulu, Hawaii. 56 pp.

**Oboyski PT**. 2000. Insects and other arthropods. In L. Beletsky (ed.) Hawaii: The ecotravellers' wildlife guide. Academic Press. New York. Pp. 197-202

**Oboyski PT**, Gregor AJ, Passerello LB, Weber J, and Banko PC. 2002. Kipuka Alala terrestrial arthropod survey. Technical Report to US Army Garrison, Hawaii. US Geological Survey, Biological Resources Division. Volcano, Hawaii.

### **Conference Presentations:**

**Oboyski PT**. 2007. "Hawaiian *Cydia* (Lepidoptera: Tortricidae) and their seed-feeding competitors." Pacific Entomology Conference – February 2007. Honolulu, Hawaii. Invited Oral Presentation.

**Oboyski PT**. 2006. "Ecology, Evolution, and Conservation of a Group of Small Endemic Moths: Hawaiian *Cydia*." Hawaii Conservation Conference – July 2006. Honolulu, Hawaii. First Runner-up Best Oral Student Presentation

**Oboyski PT**. 2006. "Phylogeography and host-plant use in a radiation of Hawaiian moths (*Cydia*: Tortricidae: Lepidoptera)." Evolution 2006 Conference (joint annual meeting of Society for the Study of Evolution, Society of Systematic Biologists, American Society of Naturalists) – June 2006. Stony Brook University, New York. Poster presentation.

**Oboyski PT** and Banko PC. 2001. "Insect parasitism and conservation of an endangered bird." Society for Conservation Biology. Annual Meeting - August 2001. Hilo, Hawaii. Invited Oral Presentation.

Gregor AJ, Passerello LB, Weber JP, and **Oboyski PT**. 2001. "Kipuka Alala Arthropod Survey Results." Society for Conservation Biology. Annual Meeting - August 2001. Hilo, Hawaii. Poster presentation.

**Oboyski PT** and Banko PC. 1998. Arthropod research projects of the Palila Restoration Project. Hawaiian Entomological Society. Annual Meeting - February 1998. Honolulu, Hawaii. Oral Presentation.

**Oboyski PT**, Brenner GJ, and Banko PC. 1997. Parasitism of endemic Hawaiian *Cydia* (Lepidoptera: Tortricidae) along an elevation gradient. Wildlife Society, Western Branch. Annual Meeting - August 1997. Sacramento, California. Oral Presentation.

**Oboyski PT**, Slotterback JW, and Banko PC. 2001. Insect parasitism and conservation of an endangered Hawaiian bird. Society for Conservation Biology. Annual Meeting - August 2001. Hilo, Hawaii. Oral presentation.

## **Teaching and Outreach Experience:**

### **Invited Lectures @ UC Berkeley**

“Invasive Species” – ESPM C11: Americans and the Global Forest (2006)

“Phylogeny of the Lepidoptera” – ESPM 298: Insect Systematics (2005)

“Natural History of the Lepidoptera” – ESPM 42: Natural History of Insects (2004, 2005)

“Lepidoptera” – ESPM 140: General Entomology (2004)

“Pollination” – ESPM 140: General Entomology (2003)

“Insect Diversity” – ESPM 42: Natural History of Insects (2003)

### August 2006 to June 2007

*Graduate Student Instructor*, University of California, Berkeley. ES 196 – “Senior Thesis for Environmental Science Majors.” Mentored senior undergraduate students on their thesis projects including guidance on project design, data collection, data analysis, and scientific writing and presentation. Instructor: John Latto

### August 2005 to present

*Discussion group leader*, University of California, Berkeley. Conceived of, organized, and lead workshops and discussion groups on “Relational Databases,” “Biology of the Lepidoptera,” and “Morphological Techniques in Entomology.”

### July 2004 to June 2005

*Curatorial Fellow*, Essig Museum of Entomology, University of California, Berkeley. Developed website and databases of species inventories for collections housed by the Essig Museum of Entomology. Conducted informational and educational tours and edited and produced annual Essig Museum News Letter. Performed curatorial duties (sorting, labeling, etc.) for Lepidoptera collections. Supervisor: Cheryl Barr, Collections Manager, Essig Museum of Entomology

### July 2003 to June 2004

*GK-12 Teaching Fellow*, University of California, Berkeley. High school special lecturer - Pittsburg High School, Pittsburg, California. NSF funded program to bring graduate students in the biological sciences into public school classrooms to foster science education in K-12 school program. Designed curricula to teach techniques in biological data collection and understanding concepts and standards related to biodiversity and conservation. PI: Rosemary Gillespie

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January 2003 to June 2003

*Graduate Student Instructor*, University of California, Berkeley. Laboratory instructor - ESPM 140 – "General Entomology." Taught insect identification to undergraduate and graduate students. Prepared laboratory presentations and materials for family level identification of common insect groups, graded collections. Instructor: Alexander Purcell

April 2002 to present

"*Cal Day*" and "*Darwin Day*" *Organizer*, Division of Insect Biology, University of California, Berkeley. Prepared displays and answered questions for East Bay children and adults at Cal Day, an annual (1 day) community outreach program; and Darwin Day, an annual celebration recognizing the contribution of Charles Darwin to evolutionary theory.

March 2000 to 2005

*Summer Field Camp Instructor*, Tropical Restoration and Ecology Education (TREE) program, Kealahou, Hawaii. Presented information and displays related to insects in tropical environments, including the role of native and invasive insects in ecology and restoration of native Hawaiian ecosystems to students age 10 to 16. Conducted field exercises including insect observation, collection, and identification. 4 days each summer.

August 2002 to December 2002

*Graduate Student Instructor*, University of California, Berkeley. Field Instructor: ESPM 107 – "Biology and Geomorphology of Tropical Islands." Assisted upper-division undergraduate students with project design, analysis, and reporting of independent projects at the Gump Research Station on the island of Moorea, French Polynesia. Supervised all aspects of student research, housing, and conduct. Reference: Roderick

September 1992 to June 1996

*Graduate Teaching Assistant*, Oregon State University, Corvallis, Oregon. Laboratory instructor: Entomology 460 – "Forest insect and disease management"; and Biology 103, "Introduction to biology." Prepared laboratory presentations and materials for graduate and undergraduate students. Topics included insect identification (Ent 460), and general biology principles (Bio 103). Reference: Schowalter

March 1993 to October 1995

*Museum Day Assistant*, Department of Entomology, Oregon State University. Prepared displays and answered questions for City of Corvallis children and adults at Museum Day, a quarterly community outreach program (2 day event) of the Department of Entomology.

March 1992 to June 1995

*Guest Lecturer*, Corvallis Public Elementary Schools, Corvallis, Oregon. Presented information and displays on insects and related arthropods to kindergarten through third grade students (3 separate lectures). Included question and answer period.

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October 1994

*Guest Lecturer*, Lebanon High School Senior Biology Class, Lebanon, Oregon. Conducted classroom discussions and led field exercises for senior high school students studying insects and related arthropods (2 class periods). Included collection and identification of insects.

July 1994 to August 1994

*Co-Instructor*, Adventures in Learning, Oregon State University Higher Education. Developed and presented exercises for "Insects Around Us" (5 week) course, designed to stimulate TAG (talented and gifted) 10-12 year old students. Included field and laboratory exercises.

September 1990 to October 1991

*Guest Lecturer*, Guilford Public Elementary Schools, Guilford, Connecticut. Presented information and displays on insects and related arthropods to kindergarten through third grade students (5 separate lectures). Included question and answer period.

**Professional Societies:**

Society for the Study of Evolution, Society of Systematic Biologists, Society for Conservation Biology, Entomological Society of America, Hawaiian Entomological Society, Lepidopterists' Society