

CYNTHIA KING
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EDUCATION

University of Hawaii at Manoa, M.S. Entomology (August 2008)

University of California, Berkeley, B.S. Environmental Science, Policy and Management (May 2001)

Troy High School, Diploma (June 1997)

EXPERIENCE

State of Hawaii, Dept. of Land and Natural Resources – Division of Forestry and Wildlife, Honolulu, HI
Entomologist V, full-time (6/09 – present)

- Develop and manage statewide Hawaii Invertebrate Program
- Author grants to obtain funding for research, survey, monitoring, and management programs for native invertebrate species and habitat, as well as invasive pest species
- Conduct surveys of rare, endangered and threatened invertebrate species to support species recovery (e.g. Blackburn's sphinx moth, *Hylaetus* spp., *Megalagrion* spp., *Drosophila* spp., and land snail species)
- Review and comment on the biological impacts of proposed actions within the state (environmental impact statements, environmental assessments, species listings, habitat conservation plans)
- Review and issue permits for research/collecting of native invertebrates and threatened/endangered species on state and private lands
- Facilitate inter-agency collaboration on mosquito surveillance, control and response

State of Hawaii, Dept. of Agriculture, Honolulu, HI
Entomologist III, full-time (12/08 – 6/09)

- Reared potential biological control agents in insectary and quarantine environment
- Researched basic biology of insects collected during foreign exploration
- Conducted monitoring of pest insects, and post-release monitoring of biological control agents
- Assisted with data collection and management, and GIS map creation

State of Hawaii, DLNR-Division of Aquatic Resources, Honolulu, HI
GIS Assistant, full-time (9/08 - 12/08)

- Assisted in stream monitoring and survey program, with emphasis on data collection for damselflies, aquatic macroinvertebrates and fishes
- Compiled reports for DAR and CWRM
- Developed outreach materials for community monitoring events

University of Hawaii at Manoa, Honolulu, HI
Graduate Research Assistant, half-time (8/05 - 8/08)

- Conducted controlled exposure field trials and surveys of wild larvae, to quantify non-target parasitism in native Hawaiian leafroller moths (Crambidae: *Omiodes*)
- Completed in-lab host suitability trials using *Omiodes continuatalis* eggs and larvae
- Managed and completed statistical analyses of all project data
- Completed mass rearing of 6 moth species and 4 parasitoid species

Hawaii Wildlife Fund, Volcano, HI
Volunteer Coordinator, (3/04 - 9/07)

- Authored grant submissions to obtain funding for Waiohino Forest Reserve marine debris removal and anchialine pool restoration project
- Recruited and organized volunteers, and solicited donations for marine debris removal events along Waiohino coastline

EXPERIENCE (continued)

Kilauea Research Station, USGS-BRD PIERC, Hawaii National Parks, HI

Research Project Specialist, full-time (1/03 – 1/05)

- Coordinated, managed, and participated in research and monitoring projects relating to native insect conservation (e.g. *Megalagrion* spp.) and invasive insect control in HAVO
- Conducted toxicant trial for control of *Vespula pensylvanica* using experimental fipronil bait
- Completed anchialine pool surveys in Hawaii Island National Parks for NPS-I&M Program
- Drafted technical reports for the State of Hawaii, National Park Service, and USGS-HCSU
- Recruited, hired, and supervised up to four technicians and six interns
- Authored/implemented Standard Operating Procedures and employee field/laboratory trainings

Kilauea Research Station, USGS-BRD PIERC, Hawaii National Parks, HI

Research Field Assistant, full-time (7/02 – 8/03)

- Managed yellow jacket wasp and two-spotted leaf hopper monitoring programs, and biannual ant surveys
- Supervised and coordinated field schedules for project interns
- Assisted with stream monitoring surveys, native plant surveys, small mammal surveys, pig activity surveys, and sorted samples for watershed health project
- Constructed databases using Microsoft Access

UC Berkeley, Department of Insect Biology, Berkeley, CA

Laboratory Assistant II, part-time/full-time (1/98–6/01, 1/02–6/02)

- Conducted in-lab biological and behavioral experiments with agricultural pests and their natural enemies
- Assisted with field trials for Argentine ant exclusion and toxic baiting studies using fipronil bait stations
- Established and maintained colonies of mealybug, scale and associated natural enemies in UC Berkeley Insectary and Quarantine Facility
- Completed augmentative releases of parasitic wasps in vineyard and orchard systems

Alameda County Water District, Fremont, CA

Engineering Groundwater Resources Intern, full-time (6/01 – 1/02)

- Assisted with groundwater basin management programs, groundwater monitoring and wellhead protection programs, and water quality projects.
- Mapped hydro-geological characteristics of groundwater basins using data and modeling
- Provided technical oversight of investigation and remediation in regions with groundwater contamination
- Tracked the progress of ongoing soil and groundwater investigations, communicated regularly with biologists, hydro-geologists, property owners and environmental consultants

RELEVANT COURSEWORK

Entomology, Insect Ecology, Insect Physiology, Conservation Biology, U.S. Environmental Policy, Integrative Biology, Environmental Biology, Tropical Community Ecology, Tropical Diversity, Wildlife Ecology, Botany, Geographic Information Systems (GIS), Statistics

SKILLS AND INTERESTS

Computer Skills: Proficient in MS Office (Word, Excel, Access, Powerpoint), ArcGIS, Mapsource, Minitab, Endnote, and internet

Certifications: Hawaii State Driver's License, Red Cross First Aid and CPR, Wilderness First Aid, Defensive Driver, PADI open water diver, B3 Basic Aviation Safety, Fire Safety Training, Laboratory Safety Training

Field Skills: Hand held GPS units, map and compass orienteering, and 4WD. Experience conducting remote surveys from field base camps.

Language Skills: Spanish – intermediate, Japanese – beginner

Leadership: President of the Hawaiian Entomological Society (2017-2018), Chair of Statewide Mosquito Working Group

GRANTS AND AWARDS

- **U.S. Fish and Wildlife Service Recovery Champion Award**, September 2018
- **DLNR-DOFAW Employee of the Year**, June 2017
- **Hawaiian Entomological Society, Entomologist of the Year**, December 2017
- **UH Manoa, Dept. of Plant and Environmental Protection Sciences**
Graduate Student Research Assistantship, Fall 2005 – Spring 2008
- **UH Foundations Ehrhorn Scholarship**
Graduate Research and Travel Grant, Spring 2008
- **UH Manoa Graduate Student Organization**
Graduate Research Grant, Spring 2007
- **UH Manoa Dept. of Ecology, Evolution and Conservation Biology**
Graduate Research Grant, Spring 2007
- **Midwest Institute of Biological Control**
Lady Bird Fellowship, Spring 2007

PUBLICATIONS

- Vorsino, A.E, C.B. King, W. Haines and D. Rubinihoff. (2013). Modeling the habitat retreat of the rediscovered endemic Hawaiian moth *Omiodes continuatalis* Wallengren (Lepidoptera:Crambidae). *PLOS one*.
- King, C. & D. Rubinihoff. (2010). Impacts of invasive parasitoids on declining endemic Hawaiian leafroller moths (*Omiodes*: Crambidae) vary among sites and species. *J. of Applied Ecology*. 47(2): 299-308.
- King, C., D. Rubinihoff, W. Haines. (2009) Observations on the biology and current distribution of an endemic and recently rediscovered Hawaiian leafroller moth, *Omiodes continuatalis* (Crambidae). *J. of the Lepidopterists' Society of America*.
- King, C. & D. Rubinihoff. (2009). Host suitability of endemic Hawaiian leafroller moth *Omiodes continuatalis* (Lepidoptera: Crambidae) for four non-native parasitoid species. *Proc. of the Hawaiian Entomological Society*. 40:11-17.
- Kaufman, L.V., King, C.B.A., Leblanc, L. and Haines, W.P. (2009). *Triclistus* nr. *aitkeni*, a New Adventive Species to the Hawaiian Islands. *Proc. of the Hawaiian Entomological Society*. 40:55-59.
- King, C. & D. Rubinihoff. (2008). First record of fossorial behavior in larvae of Hawaiian leaf-roller moth larvae, *Omiodes continuatalis* (Lepidoptera: Crambidae). *Pacific Science*. 62(1): 147-150.
- Foote, D., Acly, M.F., King, C.B.A., K. Magnacca, L. Tango, Mauer, K. In prep. Biological Inventory of Anchialine Pools in Kaloko-Honokohau National Historical Park and Hawaii Volcanoes National Park. Hawaii Cooperative Studies Unit Technical Report. 55 pp.
- Foote, D. & C. King. 2004. Application of Experimental Fipronil Baits for the Control for Invasive Yellowjacket Wasps at Ainahou Ranch, Hawaii Volcanoes National Park. Report to Hawaii Dept. of Agriculture. 18 pp.

REFERENCES

Emma Yuen, Native Ecosystem Protection and Management Section Manager
Dept. of Land and Natural Resources, Division of Forestry and Wildlife
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