

# Aviva Goldmann

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## EDUCATION:

**2010-2017**      **PhD, Department of Entomology**, University of California, Riverside  
Dissertation: Predators of Asian Citrus Psyllid (*Diaphorina citri*) in Southern California  
Advisor: Dr. Richard Stouthamer

**2002**              **B.A., Integrative Biology**, University of California, Berkeley

## RESEARCH EXPERIENCE and EMPLOYMENT:

**2020-**              **Vector Ecologist**, San Gabriel Valley Mosquito and Vector Control District  
Designs and carries out research projects in support of District operations. Analyzes district surveillance data to monitor trends in vector populations. Tests and evaluates vector control products and surveillance equipment. Investigates resistance of vectors to pesticides and related materials. Participates in joint agency research projects. Assists in developing educational material and providing public education.

**2018-2020**      **Postdoctoral Scholar**, Entomology Dept., University of California, Riverside  
Principal Investigator: Dr. William Walton  
Studied habitat use and control of *Aedes aegypti* and *Ae. albopictus* in bromeliads. Tracked larval infestation of sentinel bromeliads throughout 2018. Investigated relationship between eggs laid and adults produced in field-weathered plants. Evaluated larvicidal products for phytosafety and longevity.

**2010-2017**      **Graduate Student Researcher**, Entomology Dept., University of California, Riverside  
Advisor: Dr. Richard Stouthamer  
Designed and optimized qPCR assay to detect DNA of Asian citrus psyllid in predatory arthropod gut contents. Identified major predators of Asian citrus psyllid among southern California resident predator community for augmentative and/or conservation biological control through field surveys, CO1 barcoding, morphological ID, digestion time analysis, and laboratory predation assays.

**2007-2010**      **Research Technician and Laboratory Manager**, Dept. of Environmental Science, Policy, and Management, University of California, Berkeley  
Supervisor: Dr. Nicholas Mills  
Conducted laboratory and field research on pest and beneficial arthropods, including pesticide assays, parasitoid development and establishment, and field population monitoring, for walnuts, prunes, grapes, and light brown apple moth. Managed technicians, equipment, lab maintenance, safety, and purchasing.

**2006**              **Laboratory Assistant**, Dept. of Environmental Science, Policy, and Management, University of California, Berkeley  
Supervisors: Dr. Peter Oboyski & Dr. George Roderick  
Performed molecular genetics analyses to resolve the phylogeny of Hawaiian *Cydia* moths, including DNA extraction, PCR, and electrophoresis gel visualization of PCR products.

**2004**              **Laboratory Manager**, Dept. of Plant & Microbial Biology, University of California, Berkeley  
Supervisors: Dr. Michael Freeling & Dr. Renee Sung  
Cultivated *Arabidopsis*; managed equipment, funding, and personnel for two laboratories, including grant and publication preparation, web design, tech support, safety, accounting, hiring, and maintenance.

## **PUBLICATIONS:**

**A. Goldman**, B. Nyman, and W. Walton, 2020. "Larvicidal treatment of ornamental bromeliads to control invasive *Aedes*." Extended abstract. Proceedings of the Mosquito and Vector Control Assoc. of California, 2020.

**A. Goldman**, M. Doyle, and W. Walton, 2019. "Bromeliads as *Aedes* breeding habitat in the San Gabriel Valley." Extended abstract. Proceedings of the Mosquito and Vector Control Assoc. of California, 2019.

**A. Goldman** and R. Stouthamer. Research Progress Report: Impact of resident predator species on control of Asian Citrus Psyllid. *Citrograph* Fall 2015

**A. Goldman**, A. Soper, and R. Stouthamer. 2014. Impact of resident predator species on control of Asian Citrus Psyllid. *Citrograph* Summer 2014

N.J. Mills, **A. Goldman**, C. Pickel, W. Krueger, and R. Buchner. 2009. Biological Control of Mealy Plum Aphid. 2008 Prune Research Reports and Index of Prune Research: 49-57.

N.J. Mills, **A. Goldman**, C. Pickel, W. Krueger, and R. Buchner. 2008. Biological Control of Mealy Plum Aphid. 2007 Prune Research Reports and Index of Prune Research: 71-78.

## **INVITED TALKS:**

**Goldman, A.**, Nyman, B., Walton, W., 2020. "Larvicidal treatment of ornamental bromeliads to control invasive *Aedes*." Mosquito and Vector Control Assoc. of California, 88<sup>th</sup> Annual Conference, San Diego, CA.

**Goldman, A.**, Doyle, M., Walton, W., 2019. "Bromeliads as *Aedes* breeding habitat in the San Gabriel Valley." Mosquito and Vector Control Assoc. of California, 87<sup>th</sup> Annual Conference, Burlingame, CA.

**Goldman, A.**, Walton, W. 2019. "Assessing the Distribution and Control of *Aedes* in Phytotelmanta." Pacific Southwest Center of Excellence in Vector-Borne Diseases, 2<sup>nd</sup> Annual Meeting, Davis, CA.

**Goldman, A.** 2018. "Who's breeding in my bromeliads?" San Diego Bromeliad Society, San Diego, CA.

**Goldman, A.**, 2017. "Name all the animals: the hidden diversity and beauty of parasitoid wasps." Evolution Sunday, Fairview Community Church, Costa Mesa, CA.

**Goldman, A.**, Stouthamer, R. 2016. "Evaluating Resident Predator Species for Control of ACP Population." Citrus Research Board Biocontrol Task Force Meeting, Riverside, CA.

**Goldman, A.**, Rugman-Jones, P., Stouthamer, R. 2015. "What's Eating ACP in California: Evaluating Resident Predator Species for Control of ACP Population." Citrus Research Board Project Update Mtg., Bakersfield, CA.

**Goldman, A.**, Rugman-Jones, P., Stouthamer, R. 2014. "Evaluating Resident Predator Species for Control of ACP Population." Continuing CRB Research Proposal Meeting, Fresno, CA.

**Goldman, A.**, Rugman-Jones, P., Stouthamer, R. 2014. "What's Eating ACP in California: Evaluating Resident Predator Species for Control of ACP Population." Citrus Research Board Project Update Meeting, Ontario, CA.

**Goldman, A.** 2011. "Asian Citrus Psyllid in Southern California: An Agricultural Pest in the Urban Landscape" CAPCA (California Pest Control Advisors) Ventura/UC Riverside Annual Meeting, Ventura, CA.

## HONORS AND AWARDS:

- 2019** American Mosquito Control Assoc. Industry Shadowing Program Travel Award
- 2017** UCR Graduate Commencement Student Speaker
- 2014** Amelia Earheart Fly Now Flight Training Scholarship
- 2014** UCR GradSlam Competition, 1<sup>st</sup> Place
- 2012** Adam Repán Petko Memorial Student Book Collection, 1<sup>st</sup> Place, Graduate category
- 2010** UC Riverside Dean's Distinguished Fellowship Award

## TEACHING EXPERIENCE:

- 2017** **California Ecology and Conservation Field Course** (Teaching Assistant in residence)  
University of California Natural Reserve System  
**Research Experiences in Integrated Computational Entomology** (Lecture and Field Instructor)  
Dept. of Computer Science, University of California, Riverside  
**Introduction to Cell and Molecular Biology** (Teaching Assistant)  
Dept. of Biology, University of California, Riverside
- 2016** **Research Experiences in Integrated Computational Entomology** (Field Instructor)  
Dept. of Computer Science, University of California, Riverside
- 2012** **Insect Ecology** (Teaching Assistant)  
**Biological Control** (Teaching Assistant)  
Dept. of Entomology, University of California, Riverside

## SERVICE:

- 2018-** **Big Brothers Big Sisters**, "Big Sister" Youth Mentor
- 2011-2017** **Entomology Outreach Program**, Dept. of Entomology, University of California, Riverside  
Student Outreach Coordinator (2012), Outreach Volunteer (2011-2017)
- 2014-2016** **Civil Air Patrol**, California Wing, Squadron 5 Riverside
- 2011-2014** **Entomology Graduate Student Assoc.**, University of California, Riverside  
Recruitment Committee Chair, Grad Assembly Rep., Department Speaker Liason
- 2013-2014** **Guide Dogs For The Blind**, Dog Raiser