

# Julie V. Hopper

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Environmental Science, Policy and Management  
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## EDUCATION

Ph.D. Environmental Science, Policy and Management: 2015  
**University of California, Berkeley**

Dissertation: Multitrophic interactions and the exotic light brown apple moth in California.  
Advised by: Dr. Nicholas J. Mills

B.A. Biology: 2007  
**University of California, Santa Barbara**, College of Creative Studies

## PUBLICATIONS

Hopper, J.V., Huang W-F, Solter L.F., Mills N.J. (*In Press*). Pathogenicity, morphology, and characterization of a *Nosema fumiferanae* isolate (Microsporidia: Nosematidae) from the light brown apple moth, *Epiphyas postvittana* (Lepidoptera: Tortricidae) in California. *Journal of Invertebrate Pathology*.

Hopper, J.V. and Mills N.J. (*In Press*). Pathogenicity, prevalence and intensity of a microsporidian infection by *Nosema fumiferanae postvittana* in the light brown apple moth, *Epiphyas postvittana*, in California. *Journal of Invertebrate Pathology*.

Hopper J.V. and Mills N.J. 2015. Consequences of infanticide for a gregarious ectoparasitoid of leafroller larvae. *Ecological Entomology* 40: 461-470.

Hopper J.V., Kuris A.M., White C., Lorda J., Koch S.E., Hechinger R.F. 2014. Reduced parasite diversity and abundance in a marine whelk in its expanded geographic range. *Journal of Biogeography* 41: 1674–1684.

Hopper J.V., Nelson E.H., Daane K.M., Mills N.J. 2011. Growth, development and consumption by four syrphid species associated with the lettuce aphid, *Nasonovia ribisnigri*, in California. *Biological Control* 58: 271-276.

Hopper J.V., Poulin R., Thieltges D.W. 2008. Buffering role of the intertidal anemone *Anthopleura aureoradiata* in cercarial transmission from snails to crabs. *Journal of Experimental Marine Biology and Ecology* 367: 153-156.

## INVITED TALKS

Hopper, J.V. 2016. Parasites and hosts in motion: two case studies in California. The Society for Integrative and Comparative Biology: Portland, Oregon.

## ORAL PRESENTATIONS

Hopper, J.V. 2014. Parasite-host interactions in a changing environment. Berkeley Initiative for Global Change Biology Seminar, UC Berkeley, Berkeley, CA.

Hopper, J.V, N.J Mills, W.F Huang. 2014. Novel interactions between a microsporidian parasite and its host, the light brown apple moth. American Society of Parasitologists: New Orleans, LA.

Hopper, J.V. 2013. Biological control of the light brown apple moth, Oakland High School, CA.

Hopper, J.V and N.J Mills. 2012. Influence of parasitism on metabolites of the light brown apple moth, *Epiphyas postvittana*. Northern California Parasitologist's Annual Meeting: Tiburon, CA and Entomology Society of America Conference 2012: Knoxville, TN.

Hopper, J.V and N.J Mills. 2011. The influences of plant architecture on tritrophic interactions. Entomological Society of America (ESA) Conference: Reno, NV.

Hopper J.V., White C., Lorda J., Koch S.E., Kuris A.M. 2006. Reduced parasitism of a marine whelk, *Kelletia kelletii*, in its expanded geographic range. Western Society of Naturalists (WSN) Conference, Redmond, WA.

Hopper, J.V. 2006. Trematode prevalence, diversity and lifecycles in endemic gastropods of Lake Tanganyika, East Africa. NSF REU, NYANZA Colloquium. Kigoma, Tanzania.

Hopper, J.V, Nellie B., Ross J. 2005. Colony size-frequency distributions of *Diploria strigosa* and *D. labyrinthiformis* in Castle Harbour and the outer reefs of Bermuda. NSF REU, Bermuda.

## PROFESSIONAL EXPERIENCE

2015	Reviewer for the journal: <i>Hydrobiologia</i>
2015	Curriculum development of the Bio1B course at UC Berkeley
2014-15	Focus session leader at the 2014 and 2015 Teaching Conferences at UC Berkeley
2013	Reviewer for the journal: <i>Ecological Entomology</i>
2011-12	Seminar series coordinator for 'Essig Brunch' through the Essig Museum
2011	Reviewer for the journal: <i>Agriculture and Forest Entomology</i>
2007	Research assistant, Dr. Robert Poulin, University of Otago, Dunedin, NZ
2007	Restoration internship at the Ellwood Butterfly Reserve, California

## TEACHING ASSISTANTSHIPS

2015	Introduction to Culture and Natural Resource Management (ESPM 50AC)
2014	Biological Control (ESPM 44)
2014	Insect Ecology (ESPM 113)
2014	Field Entomology (ESPM 147)
2013	Biology and Geomorphology of Tropical Islands (ESPM C107)
2013	Methods in Environmental Sciences (ES 100)
2012	Introduction to Biology, Field Section (Bio 1B)

## **MENTORING**

2014	SPUR (Sponsored projects for undergraduate research): three students
2014	Mentored a visiting undergraduate from Ireland in independent research
2013-14	CNR-BFP research mentor for one student
2013	Undergraduate-Graduate Mentorship Program (UGMP) Mentor
2013	Mentored two high school students
2011-13	Senior thesis mentor for three undergraduates in ecological research
2011, 13	CNR-BSP summer research mentor for two students
2010-11	Environmental Leadership Program summer research mentor for two students
2010	Mentored a visiting student from Princeton University
2009-14	URAP (Undergraduate Research Apprenticeship Program) mentor: 11 students

## **OUTREACH**

2013	Surveyed microsporidian pathogens in honeybees in Moorea, French Polynesia. I worked closely with local apiculturists and informed the Dept. of Agriculture.
2013	Research presentation and a laboratory tour to Oakland High School students
2008-13	Cal Day Volunteer for the Entomology Student Organization at UC Berkeley
2008-09	Volunteered at Spiral Gardens: an educational community garden, Oakland, CA
2008	Volunteered as an English teacher for children in Porto Seguro, Brasil
2006	Volunteered and taught capoeira at an orphanage in Ggando Chevando, Uganda

## **AWARDS and FELLOWSHIPS**

2014	Marc Dresden Travel Award, American Society of Parasitologists
2012-14	Robert and Peggy van den Bosch Memorial Scholarship: \$15,000/year
2012-13	Outstanding GSI award, Department of Integrative Biology, UC Berkeley
2012	Northern California Parasitologists Meeting Award- research presentation
2012	Lillian and Alex Feir Graduate Student Award – ESA research presentation
2008-09	NSF GRFP: Two Honorable Mentions
2005-06	NSF REUs: Bermuda and Tanzania
2005	Worster grant, UCSB independent research fellowship: \$2,000
2004	SURF, UCSB independent research fellowship: \$2,000

## **REFERENCES**

**Dr. Nicholas J. Mills:** Department of Environmental Science, Policy and Management  
University of California, Berkeley. E-mail: [nmills@berkeley.edu](mailto:nmills@berkeley.edu)

**Dr. Neil D. Tsutsui:** Department of Environmental Science, Policy and Management  
University of California, Berkeley. Email: [ntsutsui@berkeley.edu](mailto:ntsutsui@berkeley.edu)

**Dr. Armand M. Kuris:** Department of Ecology, Evolution and Marine Biology  
University of California, Santa Barbara. Email: [kuris@lifesci.ucsb.edu](mailto:kuris@lifesci.ucsb.edu)