

Dr. Julie V. Hopper

Dept. Biological Sciences, University of Southern California
3616 Trousdale Ave., AHF B17
Los Angeles, CA 90089-0371

1-614-404-2093
juliehop@usc.edu
www.juliehopper.wordpress.com

EDUCATION and TRAINING

Postdoctoral Teaching Fellow	University of Southern California Biological Sciences and Environmental Studies	2019-Present
Postdoctoral Researcher	University of Southern California Marine Environmental Biology Division	2018-2019
Postdoctoral Research Fellow	University of California, Davis Department of Environmental Science and Policy	2016-2018
Ph.D.	University of California, Berkeley Environmental Science, Policy and Management	2008-2015
B.A.	University of California, Santa Barbara Biology, College of Creative Studies	2003-2007

TEACHING (INSTRUCTOR of RECORD) at USC

2019-20	Environmental Studies: Lecture (ENST 100)
2019	Ecology: Lecture and Lab (BISC 315L)

TEACHING ASSISTANTSHIPS at UC Berkeley

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)

TEACHING AWARDS

2012-13	Outstanding GSI award, Department of Integrative Biology, UC Berkeley
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MENTORING and OUTREACH

2019-20	Research mentor for a USC undergraduate student in their senior thesis project
2018-19	Career Panel for underrepresented students in the GEM program at USC
2018	Mentor for two undergraduates at USC in marine plankton research
2018	Presentation to students in the Neighborhood Academic Initiative at USC
2017	Research mentor for a high school student (Albany High School in Albany, CA)
2016-17	Mentored two UC Berkeley undergraduates, including one senior thesis student
2016	Workshop Leader for Greenlight for Girls (promoting STEM to girls aged 10-16)

- 2009-15 ‘Global Change, Species Invasions and Expansions’. Richmond, CA
Mentored 27 undergraduates in ecological research at UC Berkeley, including three senior thesis 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

RESEARCH AWARDS and FELLOWSHIPS

- 2016-18 Delta Science Postdoctoral Fellowship, California Sea Grant: ~100K/year
- 2016 Mauro Martignoni Student Award, Society for Invertebrate Pathology: \$1000
- 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 – Entomology Society of America
- 2008-09 NSF GRFP: Two Honorable Mentions
- 2006 NSF REU: Lake Tanganyika, Kigoma, Tanzania (PI: Dr. Elinor Michel)
- 2005 NSF REU: BIOS, St. Georges, Bermuda (PI: Dr. Ross Jones)
- 2004-05 UCSB: Two independent research fellowships (Worster and SURF) \$2,000 ea.

PUBLICATIONS

Hopper J.V., McCue K.F., Pratt P.D., Duchesne P. Grosholz E.D., and Hufbauer R.A. 2019. Into the weeds: matching importation history to genetic consequences and pathways in two widely used biological control agents. *Evolutionary Applications* 12: 773– 790.

Reddy A.M. Pratt, P.D., **Hopper J.V.**, Cibils X., Walsh G.C., Mc Kay, F. 2019. Variation in cool temperature performance among populations of *Neochetina eichhorniae* (Coleoptera: Curculionidae) and implications for the biological control of water hyacinth, *Eichhornia crassipes*, in a temperate climate. *Biological Control* 128, 85–93.

Hopper J.V., Pratt P.D., McCue K.F., Pitcairn M.J., Moran P.J., and Madsen J.D. 2017. Spatial and temporal variation of biological control agents associated with *Eichhornia crassipes* in the Sacramento-San Joaquin River Delta. *Biological Control*. 111, 13-22.

Hopper J.V. and Mills N.J. 2016. Novel multitrophic interactions among an exotic, generalist herbivore, its host plants and resident enemies in California. *Oecologia*. 182 (4), 1117-1128.

Hopper J.V., Huang W-F, Solter L.F., Mills N.J. 2016. 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*. 134: 38-47.

Hopper J.V. and Mills N.J. 2016. 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*. 134: 27–34.

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.

PROFESSIONAL EXPERIENCE

2011-19 Reviewer for the journals: *Agriculture and Forest Entomology*, *Hydrobiologia*, *Ecological Entomology*, *Journal of Invertebrate Pathology*, *Marine Ecology Progress Series*, and *PLoS ONE*

2018 Wrote an NSF-OCE grant for \$750,000 as a Co-PI at USC

2017 Student and Postdoctoral Chair for the Society for Invertebrate Pathology (SIP)

2016-17 Participant in the Delta Region Areawide Aquatic Weed Project (DRAAWP) and the Interagency Ecological Program (IEP), interagency and academic workgroups

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

2011-12 Seminar series coordinator for ‘Essig Brunch’ through the Essig Museum

2007 Ecological parasitology research, Robert Poulin’s lab, University of Otago, NZ

2006 Researcher, NSF REU, aquatic parasitology, Nyanza Project, Tanzania

2005 Researcher, NSF REU, coral health, Bermuda Institute of Ocean Sciences: BIOS

2005 Certified AAUS Scientific Research Diver at UCSB

PRESS and PUBLICITY

2017 Article profiling my research in the December issue of ‘*Estuary News*’:
<http://www.sfestuary.org/estuary-news-weevils/>

2014 Coverage of Hopper et al. 2014 publication, *J. Biogeography*, by UCSB News:
<http://www.news.ucsb.edu/2014/014310/not-home-range>

PRESENTATIONS (All are oral unless noted as poster, ¹Invited Talks)

Hopper J.V., Ollison G.A., Tatters A.O., Garcés E., Caron D.A. 2019. Beyond Parasites in Food Webs: Effects of a Parasitoid in the Marine Microbial Loop. SCAS, CSU Northridge, CA.

Hopper J.V. 2018. Ecological Parasitology: Applications to Marine Ecosystems. Marine Environmental Biology Division Retreat, USC Wrigley Institute, Catalina Island, CA.

Hopper J.V., Conrad J.L., Pratt P.D., Grosholz E.D. 2017. Biological control of invasive water hyacinth, *Eichhornia crassipes*, in the Delta. Delta Invasive Species Symposium. Davis, CA.

Hopper J.V. 2017. The abundance and distribution of *Nosema ceranae* in honeybees in Mo'orea and Tahiti, French Polynesia. (Poster) Society for Invertebrate Pathology. San Diego, CA.

Hopper¹ J.V., Conrad J.L., Pratt P.D., Grosholz E.D. 2017. Current state of the biological control of invasive water hyacinth, *Eichhornia crassipes*, by two weevils (*Neochetina* spp.) in the Sacramento-San Joaquin River Delta. IEP workshop. Folsom, CA.

Hopper J.V., Conrad J.L., Pratt P.D., Grosholz E.D. 2016. Mechanisms for the effective biological control of the invasive water hyacinth, *Eichhornia crassipes*, in the Sacramento-San Joaquin River Delta, California. Bay-Delta Science Conference. Sacramento, CA.

Hopper¹ J.V., Huang W-F., Solter L.F., Mills N.J. 2016. Pathogenicity, prevalence and intensity of a microsporidian infection by *Nosema fumiferanae postvittana* subsp. n. in the light brown apple moth, *Epiphyas postvittana*, in California. Society for Invertebrate Pathology, France.

Hopper¹ J.V. 2016. Parasites and hosts in motion: two case studies in California. The Society for Integrative and Comparative Biology: Portland, Oregon.

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

Hopper¹ J.V. 2014. Parasite-host interactions in a changing environment. Berkeley Initiative for Global Change Biology Seminar, UC Berkeley, Berkeley, CA.

Hopper¹ J.V. 2013. Biological control of the light brown apple moth. Oakland High School, CA.

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

Hopper J.V. and Mills N.J. 2011. Winner takes all: Interspecific and intraspecific competition among Australian parasitoids for their host, the light brown apple moth. (Poster) American Society of Parasitologists (ASP). Anchorage, AK.

Hopper J.V., White C., Lorda J., Koch S.E., Kuris A.M. 2006. Reduced parasitism of a marine whelk in its expanded geographic range. Western Society of Naturalists, 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.