

CURRICULUM VITAE

Adam A. Pepi

Graduate Group in Ecology
Department of Entomology & Nematology
University of California, Davis
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EDUCATION

Ph. D. Candidate, Ecology, **University of California Davis**. Expected 11 September, 2021.
Major Advisors: Richard Karban & Marcel Holyoak

M. S. Organismic and Evolutionary Biology, **University of Massachusetts Amherst**. 2015.
Major Advisor: Joseph Elkinton.

B. S. Forestry, *Summa cum laude*, **University of Massachusetts Amherst**. 2014.

RESEARCH & PROFESSIONAL EXPERIENCE

Visiting Scholar, Cory Lab, Simon Fraser University (unofficial). 2020–2021

Associate Instructor, University of California, Davis. 2020

Fulbright Fellow, University of Tromsø & Norwegian Institute for Nature Research. 2016–2017.

Biological Science Technician, USDA ARS WRRC, Invasive Species Unit, Albany, California. 2016.

Research Assistant, Elkinton Lab, University of Massachusetts, Amherst. 2013–2015.

Forest Management Assistant (SCA), The Nature Conservancy, Nashville, Indiana. 2013.

PUBLICATIONS

1. **Pepi, A.**, M. Holyoak & R. Karban. 2021. Altered precipitation dynamics lead to a shift in herbivore dynamical regime. *In press, Ecology Letters*.
2. **Pepi, A.**, & M. McMunn†. 2021. Predator diversity and thermal niche complementarity attenuate indirect effects of warming on prey survival. *In press, The American Naturalist*.
3. Pan, V.,* **A. Pepi**, J. Goidell & R. Karban. 2021. Retention of green leaves not brown leaves increases spring cynipid diversity on large Valley Oaks. *Arthropod-Plant Interactions*. <https://doi.org/10.1007/s11829-021-09815-7>
4. **Pepi, A.** & R. Karban. 2021. Effects of experimental watering but not warming on herbivory vary across a gradient of precipitation. *Ecology and Evolution*, 00: 1– 8. <https://doi.org/10.1002/ece3.7197>
5. Karban, R., E. LoPresti†, **A. Pepi** & P. Grof-Tisza†. 2019. Induction of the sticky plant defense syndrome in wild tobacco. *Ecology*, 100:e02746. <https://doi.org/10.1002/ecy.2746>

6. Grof-Tisza, P.‡, **A. Pepi**, M. Holyoak & R. Karban. 2019. Precipitation-dependent source-sink dynamics in a spatially structured population of an outbreaking caterpillar. *Landscape Ecology*, 34:1131-1143. <https://doi.org/10.1007/s10980-019-00793-z>
7. Grof-Tisza, P.‡, & **A. Pepi**. 2019. Cannibalism of pupae by caterpillars of the Ranchman's tiger moth, *Arctia virginalis*, (Lepidoptera: Erebididae). *American Midland Naturalist*, 181:139-142. <https://doi.org/10.1674/0003-0031-181.1.139>
8. Vindstad, O. P.‡, J. Jepsen, M. Ek†, **A. Pepi** & R. Ims. 2018. Can novel pest outbreaks drive ecosystem transitions in northern-boreal birch forest? *Journal of Ecology*, 107: 1141-1153. <https://doi.org/10.1111/1365-2745.13093>
9. **Pepi, A.**, P. Grof-Tisza‡, M. Holyoak & R. Karban. 2018. As temperature increases, predator attack rate is more important to survival than a smaller window of prey vulnerability. *Ecology*, 99:1584-1590. <https://doi.org/10.1002/ecy.2356>
10. **Pepi, A.**, O.P.L Vindstad‡, M. Ek† & J. Jepsen. 2017. Elevationally biased avian predation as a contributor to altitudinal distribution of eruptive geometrids in sub-arctic mountain birch forest. *Ecological Entomology*, 42:430-448. <https://doi.org/10.1111/een.12400>
11. **Pepi, A.**, H. Broadley† & J. Elkinton. 2016. Density-dependent effects of larval dispersal mediated by host plant quality on populations of an invasive insect. *Oecologia* 182:499-509. Erratum 185:533-535. <https://doi.org/10.1007/s00442-016-3689-z>

*– Undergraduate coauthor; † – Graduate student coauthor; ‡ – Postdoctoral coauthor.

TEACHING & MENTORING

Instructor of Record: General Ecology (ESP 100, UC Davis), Summer 2020

Guest lecturing: General Ecology (ESP 100, UC Davis), Fall 2018; Insect Ecology (BIOL 411, UBC), Winter 2021

Teaching assistantships (UC Davis): Introduction to Biology: Principles of Ecology and Evolution (BIS2B, 4 quarters), Terrestrial Field Ecology (ENT 225, 2 quarters), General Ecology (ESP 100), Population Ecology (ESP 121), Behavioral Ecology of Insects (ENT 104)

Pedagogical Training: 'Biology Education Research and Evidence-based Teaching' seminar, UC Davis, Winter 2021

Undergraduate research mentoring (UC Davis): Isabelle Gilchrist, Fiona Beyerle, Jasmine Daragahi, Gina Mongiello-Lopez, Claire Beck, Vincent Pan, Vinay Mase, Cameron Moseley, Aiyanna Laws-McNeil, Alexis Ballman

Graduate seminar organizer: 'Epistemology, Theory & Empiricism: How do we know anything in ecology?' UC Davis, Winter 2018 & 2019.

HONORS & GRANTS

H. A. Jastro Shields Research Scholarship Award, UC Davis. \$6,000 total. 2020, 2019, & 2018

Graduate Group in Ecology Fellowship, UC Davis. \$12,000. 2019

Center for Population Biology Research Award, UC Davis. \$1,000. 2019

UC Davis Natural Reserves Student Research Grant. \$2,950. 2019

Mildred E. Mathias Graduate Student Research Grant. \$2,500. 2018

Institute for the Study of Ecological and Evolutionary Climate Impacts Fellowship. \$10,000. 2017

J. William Fulbright Student Fellowship. \$17,000. 2016

NSF Graduate Research Fellowship, Honorable Mention. 2016

SELECTED CONFERENCE PRESENTATIONS

Ecological Society of America Annual Meeting. 2020

Presentation: *Effects of experimental watering & warming on herbivory across a gradient of precipitation*

Climate Change in the UC Reserves: ISEECI Conference, UCSC. 2019.

Invited Presentation: *Thermal asymmetries & predator prey interactions in a warming world*

Joint Entomological Society of America, Ent. Soc. of Canada, and Ent. Soc. of British Columbia Meeting. 2018

Presentation: *Bottom-up vs. top-down mediated effects of temperature and rainfall on population dynamics of the Ranchman's tiger moth (Arctia virginalis)*

Ecological Society of America Annual Meeting. 2018

Poster: *As temperature increases, predator attack rate is more important to survival than a smaller window of prey vulnerability*

Norwegian Ecological Society Conference. 2017

Presentation: *Elevational distribution of geometrid moth outbreaks: role of avian and pupal predation*

XXV International Congress of Entomology. 2016

Invited Presentation: *Role of dispersal in regulating densities of outbreak populations of winter moth in North America*

Northeast Forest Pest Council. 2015.

Presentation: *Effects of dispersal and host plant interactions on outbreaking winter moth (Lepidoptera: Geometridae) populations in Massachusetts*

USDA Interagency Research Forum on Invasive Species. 2015.

Presentation: *Dispersal as a regulator of outbreaking winter moth (Lepidoptera: Geometridae) populations in Massachusetts*

IUFRO World Congress / Society of American Foresters National Meeting. 2014

Poster: *Survival of larval winter moths (Lepidoptera: Geometridae) in field and laboratory studies*

ACADEMIC SERVICE & PROFESSIONAL MEMBERSHIPS

- Reviewer for *Journal of Animal Ecology*, *Ecology*, *Functional Ecology*, *Ecography*, *Plos One*
- Member of Entomological Society of America, Ecological Society of America, American Society of Naturalists