

Anna DiPaola

Curriculum Vitae

addip@ucdavis.edu

Education

2025	PhD Ecology and Evolutionary Biology, Cornell University
2016	B.S. Biology: Ecology, Behavior and Evolution, University of California, San Diego

Experience

2025 - present	Postdoctoral Researcher Karp Lab and Grettenberger Lab, UC Davis, Davis, CA
2019 - 2025	PhD Candidate Power Lab and Poveda Lab, Cornell University, Ithaca, NY
2017 - 2018	Research Assistant Nielsen Lab, Rutgers University, Bridgeton, NJ
2016 - 2017	Research Assistant and Project Site Manager Poulsen Lab, Duke University, Ivindo National Park, Gabon
2013 - 2016	Volunteer, Senior Honors Thesis Researcher Holway Lab, University of California, San Diego, La Jolla, CA
2015	Research Experience for Undergraduates (NSF REU) Recipient La Selva Biological Research Station, Costa Rica

Grants and Fellowships

2023	Toward Sustainability Foundation (Cornell Atkinson Center for Sustainability)
2020	International Research Travel Grant (Einaudi Center)
2019	Graduate Research Fellowships Program (NSF)
2019	Sustainable Biodiversity Fund (Cornell Atkinson Center for Sustainability)

Publications

DiPaola, A., McAlvay, A.C., Power, A.G. Varietal and intrafamilial species diversity influence aphid and yellow dwarf virus pressure within mixtures of wheat and barley. (in review)

Olaya-Arenas, P., Cho, C. Y.-L., Olmstead, D., DiPaola, A., Crowther, S., Degni, J., Miller, J., Gabriel, A., Stanyard, M., Zuefle, M., Letham, J., & Poveda, K. (2024). Degree-day models for predicting adult *Delia platura* (Diptera: Anthomyiidae) spring flight and first emergence in New York State. *Journal of Economic Entomology*, 117(5).

Olaya-Arenas, P., Crowther, S., Degni, J., DiPaola, A., ... Poveda, K. (2024). Monitoring adult *Delia platura* (Diptera: Anthomyiidae) in New York State corn fields using blue and yellow sticky cards. *Florida Entomologist*, 107(1).

McAlvay, A. C., **DiPaola, A.**, D'Andrea, A. C., Ruelle, M. L., Mosulishvili, M., Halstead, P., & Power, A. G. (2022). Cereal species mixtures: an ancient practice with potential for climate resilience. A review. *Agronomy for Sustainable Development*, 42(5), 1-17.

Peters, J. S., Aguirre, B. A., **DiPaola, A.**, & Power, A. G. (2022). Ecology of yellow dwarf viruses in crops and grasslands: interactions in the context of climate change. *Annual Review of Phytopathology*, 60, 283-305.

DiPaola, A., A. G. Power. The influence of varietal and intrafamilial diversity on barley yellow dwarf virus and its aphid vectors in mixtures of wheat and barley. – in preparation

McDougall, R., **A. DiPaola**, B. Blaauw, and A. Nielsen. 2021. Managing orchard groundcover to reduce pollinator foraging post-bloom. *Pest Management Science*.

Bowler, M., M. Anderson, C. Beirne, H. El Bizri, **A. DiPaola**, J. Fa, M. Gilmore, L. Lemos, P. Mayor, D. Meza, A. Meier, G. Menie Menie, D. Moreno, J. Poulsen, A. Jesus, M. Tobler, and J. Valsecchi. 2020. LED flashlight technology facilitates wild meat hunting across the tropics. *Frontiers in Ecology and the Environment* 18(9): 489-495.

Outreach and Extension Engagement

Invited speaker, “Research update on seedcorn maggot and our future without neonics”, Cornell Cooperative Extension Winter Crop Meeting 2025, 23 & 24 Jan 2025, Auburn and Dryden, NY, USA

Invited speaker, “Research update on seedcorn maggot and our future without neonics”, Cornell Cooperative Extension Corn and Soybean Day 2025, 14 & 15 January 2025, Hamilton and Ballston Spa, NY USA

Invited speaker, “Seedcorn Maggot research updates and plans from the Poveda lab”, Cornell Field Crops Winter Speaker Series, 22 February 2024

Invited speaker, "Update on research into seed treatment options for seedcorn maggot", Corn Day 2024, 21 February 2024, Cooperstown NY, USA

Invited speaker, “Risk assessment tool for predicting seedcorn maggot”, Musgrave Research Farm Field Day, 18 August 2022, Aurora NY, USA

Invited speaker, “Seedcorn maggot research in the Poveda Lab”, Cornell Cooperative Extension Corn Congresses 5 & 6 January 2023, Batavia and Waterloo, NY USA

Outreach Volunteer, Plant-Insect Interactions Station, Insectapalooza, 23 September 2023, Ithaca NY, USA

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Awards

First Place in the "IPM - Field Crops 1" section in 2023 Entomological Society of America Annual Meeting Student Competition – 10 minute oral presentations

Presentations

"The impact of cover cropping and insecticide seed treatments on seedcorn maggot pressure in field corn", Entomological Society of America Entomology 2024 Annual Meeting, 10-13 November 2024, Phoenix AZ, USA

"The impact of landscape composition on local management of the seedcorn maggot in field corn", Entomological Society of America Entomology 2023 Annual Meeting, 5-8 November 2023, National Harbor MD, USA

"The impact of wheat and barley mixtures on Barley Yellow Dwarf Virus and its aphid vectors", BriAS Workshop: Remembering how to live here: Historical and traditional agricultural practices for climate change resilience, 14 February 2023, Ixelles, Belgium

Oral presentation "Landscape composition and the natural enemies of the fall armyworm *Spodoptera frugiperda*" (Proposal), Ecology and Evolutionary Biology December Symposium 2019, Cornell University, Ithaca, NY

Poster "Impact of floral groundcover management on the abundance and diversity of bees collected in peach and apple orchards", Entomological Society of America Eastern Branch Annual Meeting 2018, Annapolis

Poster "Foraging preferences of the Argentine Ant *Linepithema humile*", UC San Diego Undergraduate Research Showcase 2016, San Diego

Poster "Demography and Spatial Influence of leafcutter ant *Atta cephalotes* at La Selva Biological Station", Emerging Researchers National Conference in STEM 2016, Washington D.C.

Oral presentation "*Atta cephalotes* colony demography", La Selva Biological Research Station REU Symposium 2015, Puerto Viejo de Sarapiquí, Costa Rica