

Chris Halsch

Doctoral Candidate
University of Nevada, Reno
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Education

University of Nevada, Reno	2018 – Present
Doctoral Candidate - <i>Ecology, Evolution, and Conservation Biology</i>	
Advisor: Matthew L. Forister	
University of California, Irvine	2011– 2015
Bachelor of Science – <i>Earth System Science</i>	
Bachelor of Science – <i>Ecology and Evolution</i>	

Grants, Scholarships, and Awards

Hitchcock Fellowship (\$13,300)	2021
Ben & Beatrice Edwards Biology Scholarship (\$1,200)	2020 – 2021
Outstanding Graduate Student Scholarship (\$500)	2020
Graduate Research Fellowship Program (Honorable Mention)	2020

Publications

Forister, M.L., **Halsch, C.A.**, Nice, C.C., Fordyce, J.A., Dilts, T.E., Oliver, J.C., Prudic, K.L., Shapiro, A.M., Wilson, J.K., and Glassberg, J. (in review) Community scientists see fewer butterflies across the warming and drying landscapes of the American West.

Halsch, C.A., Shapiro, A.M., Fordyce, J.A., Nice, C.C., Thorne, J.H., Waetjen, D.P., and Forister, M.L. 2021. Insects and recent climate change. *Proceedings of the National Academy of Sciences* 118: e2002543117.

Halsch, C.A., Code, A., Hoyle, S.M., Fordyce, J.A., Baert, N., and Forister, M.L. 2020. Pesticide contamination of milkweeds across the agricultural, urban and open spaces of low elevation Northern California. *Frontiers in Ecology and Evolution*. doi:10.3389/fevo.2020.00162

Halsch, C.A., Shapiro, A.M., Thorne, J.H., Waetjen, D.P., and Forister, M.L. 2020. A winner in the Anthropocene: changing host plant distribution explains geographic range expansion in the gulf fritillary butterfly. *Ecological Entomology*. doi: 10.1111/een.12845

Kimball, S., Long, J., Ludovise, S., Ta, P., Schmidt, K., **Halsch, C.A.**, and Magliano, K. 2019. Impacts of Competition and Herbivory on Native Plants in a Community-Engaged, Adaptively Managed Restoration Experiment. *Conservation Science and Practice*. doi: 10.1111/csp2.122

Tamura, N., Lulow, M.E., **Halsch, C.A.**, Major, M.R., Balazs, K.R., Austin, P., Huxman, T.E., and Kimball, S. 2017. Effectiveness of seed sowing techniques for sloped restoration sites. *Restoration Ecology*. doi: 10.1111/rec.12515

Halsch, C., Wessling, J., Lister, A., Beck, E., Zembel, R., Yurko, M., and Kimball, S. 2016. Upper Newport Bay Restoration Plan. *UC Irvine: Center for Environmental Biology*. Available at: <http://escholarship.org/uc/item/4g1830p4>

Teaching Experience

- EECB 751 – Philosophy of Science** Fall 2020
Designed and implemented course on the philosophy of science, with a focus on ecology, evolution, and conservation biology.
- BIOL 750 – Research Design** Spring 2020
Organized and led sessions that introduced graduate students to R coding and statistical analysis for ecological data.
- BIOL 437 – Entomology** Spring 2019
Organized and led labs on insect identification and taxonomy.
- Crystal Cove Conservancy, Newport Beach, CA** Spring 2016- Spring 2018
Designed and implemented citizen science education programs for K-12 students in partnership with California State Parks and University of California Irvine researchers.

Volunteering and Public Outreach

- Board member – Nevada Bugs and Butterflies 2020-Present
Co-President – Nerd Nite, Reno, Community Engagement and Lecture Series 2019-Present
President – Plant-Animal Interactions Club 2018-Present

Presentations

Halsch, C.A., Shapiro, A.M., Forister, M.L. 2020. Understanding global change and butterflies with western North America's longest-running monitoring study. Entomological Society of America Annual Meeting (virtual).

Halsch, C.A., Shapiro, A.M., Forister, M.L. 2019. The Spatial and Temporal Story of the Expanding Gulf Fritillary Butterfly. The Lepidopterist's Society Annual Meeting, Davis, CA.

Posters

Halsch, C.A., Shapiro, A.M., Forister, M.L. 2019. An Expanding Fitness Landscape: Minimum Temperatures, Host Plant Distribution, and the Expansion of the Gulf Fritillary. Entomological Society of America Annual Meeting, St. Louis, MO.

Journal Reviews

- Annals of the Entomological Society of America – 2020
Ecological Entomology – 2020
Global Change Biology (twice) – 2020
Annals of the Entomological Society of America – 2019
Landscape Ecology – 2018