SHARRON (RONNIE) MILLER

Mill3499@msu.edu

★ Sharronzmiller.com

EDUCATION

PhD	Michigan State University, Entomology Dissertation: "Native Bee Ecology and Conservation across urban and agricultural landscapes" Committee: Rufus Isaacs, Rebecca Tonietto, Adam Zwickle, and Zsofia Szendrei	Spring 2026
BS	University of Nevada, Reno; CABNR Major: Wildlife Ecology and Conservation Graduated Cum Laude 3.94 GPA	Fall 2019
	University of Costa Rica, USAC Study abroad – Tropical Ecology and Conservation 4.00 GPA	Summer 2019
AS	Truckee Meadows Community College 3.94 GPA	Fall 2017

AWARDS AND SCHOLARSHIPS

USDA NIFA AFRI Pre-Doctoral Fellowship	Fall 2023
Hutson Award	Spring 2022
J.E. and Jean M. McPherson Graduate Student Travel Award	Spring 2022
University Distinguished Fellowship	Fall 2021 – Spring 2026
Plant Science Scholarship	Fall 2021
Dean's List at University of Nevada, Reno	Spring 2018 – Fall 2019
Dean's List at Truckee Meadows Community College	Fall 2017
Millennium Scholarship	Fall 2015 – Fall 2019
Majorie L. Sill Memorial Scholarship	Fall 2019
Leonard & Sally Detrick Renewal Scholarship	Fall 2019 – Spring 2020

PRESENTATIONS

Wildflower Association of Michigan

Spring 2024

[First author] East Lansing, MI, USA

Bumble bee communities across Michigan.

USFWS RPBB (B. affinis) Virtual Science Webinar

Spring 2024

[First author] East Lansing, MI, USA

Pesticide residues in bumble bees across different land use types in southern Michigan.

CMERC Symposium

Fall 2023

[First author] East Lansing, MI, USA

Bumble bee communities across the Greater Lansing area.

Annual Entomological Society of America

Fall 2022

[First author] Vancouver, BC, Canada

Field relevant exposure of bumble bee (*Bombus impatiens*) microcolonies to assess impacts of local and landscape sources of pesticides: an update.

Protecting Pollinators in Urban Landscapes

Fall 2022

[First author] Athens, GA, USA

Bumble bee community composition across human altered landscapes.

North Central Branch of the Entomological Society of America

Spring 2022

[First author] Minneapolis, MN, USA

Field relevant exposure of bumble bee (*Bombus impatiens*) microcolonies to assess impacts of local and landscape sources of pesticides.

North Central Branch of the Entomological Society of America

Spring 2022

[Co-author] Minneapolis, MN, USA

Exploring pesticide exposure and risk in Michigan bumble bees. Isaacs, R., Miller, S.Z., Graham, K.K., Rowe, L., and McArt, S. (2022). Annual meeting of the North Central Branch of the Entomological Society of America. Minneapolis, MN. March 20-23, 2022

REU Summer Research Poster Presentation

Summer 2018

[Co-first author] University of Nevada, Reno, USA Do varying genotypes of the legume alfalfa effect the performance of specialist butterflies *Lycaeides melissa* and *Colias eurytheme* and generalist species *Vanessa cardui*?.

PUBLICATIONS

Eeraerts, M., DeVetter, L. W., Batáry, P., Ternest, J. J., Mallinger, R., Arrington, M., ... & Isaacs, R. (2023). Synthesis of highbush blueberry pollination research reveals region-specific differences in the contributions of honeybees and wild bees. *Journal of Applied Ecology*, 60(12), 2528-2539.

Eeraerts, M. et al. (2023). Pollination deficits and their relation with insect pollinator visitation are cultivar-dependent in an entomorphilous crop. (*Drafting*).

Richman, S. K., Maalouf, I. M., Smilanich, A. M., Marquez Sanchez, D., **Miller, S. Z.**, & Leonard, A. S. (2022). A neonicotinoid pesticide alters how nectar chemistry affects bees. *Functional Ecology*, 36(4), 1063-1073.

RESEARCH EXPERIENCE

Tropical Ecology, University of Costa Rica

Summer 2019

Created reports on topics including: the impact of green Infrastructure in CR and bee conservation in CR.

Tropical Conservation, University of Costa Rica

Summer 2019

Created reports on topics including: the relationship between herbivory and pollination with plant characteristics, macroinvertebrates as biological indicators of water quality, and the conflict between conservation of jaguars and sea turtles.

Independent Study, University of Nevada, Reno Conducted 135 hours of behavioral evaluations on bumblebees *Bombus impatiens* and maintained colonies.

Spring 2019 - Fall 2019

PROFESSIONAL TRAINING

Multivariate Data Analysis Techniques in Ecology

Michigan State University, January - April 2024

Michigan Bumble Bee Identification Course

Oakland University, May 2023

Midwest Bumble Bee Identification Course

University of Minnesota, June 2021

EXTENSION AND OUTREACH

Bee Palooza, MSU Horticultural Gardens

May 2023 – Present

[Event Coordinator], East Lansing, MI, USA

Created and managed planning including team, program, advertisement, and day-of coordination. Event goal 'Everyone can Bee a Scientist' with intentional outreach to underrepresented groups of people.

Green Dialogue, Meridian Township, MI

December 2023

[Presenter], Zoom

Educated community members on the bumble bees in Michigan and ways to help bees.

Pumpkinfest, MSU Tollgate Farm and Education Center

October 2021 – 2023

[Exhibitor], Novi, MI, USA

Educated the public, with a focus on children, about the importance of native pollinators, especially squash bees which pollinate pumpkins and other squash.

MSU SciFest, MSU STEM Teaching and Learning Facility

April 2023

[Exhibitor], East Lansing, MI, USA

"The Buzz on Bees" Engaged community with native bees using bumble bee petting zoo, observation colony/spot the queen game, specimen displays, and pollination information.

Pollineighbor, MSU Tollgate Farm and Education Center

June 2022

[Exhibitor], Novi, MI, USA

Celebration of national pollinator week. Educated the public about the importance of native pollinators. This included solitary and bumble bee life cycles, native bee hotels and maintenance, and more.

Girls Math and Science Day, MSU Wells Hall

May 2022

[Volunteer], East Lansing, MI, May 2022

MSU Graduate Women in Science program to educate young girls about STEM.

Taught middle school girls about DNA extraction using strawberries.

COMMUNITY ENGAGEMENT

Native Bee Hotel

[Volunteer], April 2021 – Present

Maintained the Native Bee Hotel in the MSU Horticulture VIP garden: including replacing filled stems and bee blocks with new ones, storing overwintering bee in a box to emerge, and recreating the informational signs.

Reno Burrito Project

[Chief Marketing Manager/Volunteer], Reno, NV, July 2020 – March 2024

Supplied homemade burritos and hygiene kits to the houseless population in downtown Reno and promoted the project through social media and flyers.

Isaacs Lab Twitter

[Volunteer], April 2022 – 2023

Updated and maintained the Isaacs Lab twitter from the Department of Entomology at Michigan State University.

All Hands and All Hearts

[Volunteer], Yabucoa, Puerto Rico, January 2020 – February 2020

Restored impacted homes from Hurricane Maria to create hurricane resilience.

Sierra Safari Zoo

[Volunteer], Reno, NV, May 2019

Fed animals with a focus in Felid nutrition and cleaned enclosures.

REFERENCES

Dr. Rufus Isaacs, [Professor & Extension Specialist]

Entomology, Michigan State University

isaacslab.ent.msu.edu

Dr. Sarah K. Richman, [Postdoctoral Researcher]

Leonard Lab, University of Nevada, Reno

Dr. Meeghan Gray, [Professor & Department Co-chair]

Biology, Truckee Meadows Community College

★ sites.google.com/tmcc.edu/meeghan-gray

Dr. Chris Feldman, [Associate Professor & Associate Director of the Museum of Natural History]

Biology, University of Nevada, Reno

ophis@unr.edu

◄ feldmanlab.weebly.com