## Education

University of California, San Diego
Ph.D. in Ecology, Behavior, and Evolution, Advisor: Dr. David Holway
Certificate in Native American and Indigenous Studies
University of Colorado, Boulder
M.S. in Museum and Field Studies, Advisor: Dr. M. Deane Bowers

2021
Thesis: Weathering the Storm: Wild Bee Community Response to an Extreme Flood
B.A. in Ecology and Evolutionary Biology \& German Studies

2015

## Publications

## Refereed

Mullins, J.L., et al. 2023. New records of gynandromorphism in Heriades and Dianthidium and images of the first reported Dianthidium gynandromorph (Hymenoptera: Megachilidae). J. Kans. Entomol. 96 (2) 30-38.
Mullins, J.L., Strange, J.P., Tripodi, A.D. 2020. Why Are Queens Broodless? Failed nest initiation not linked to parasites, mating Status, or ovary development. Econ. Entomol.

Outreach
Bee of the Month. Torreyana Docent Newsletter. Monthly. LLink]
Ask a Melittologist. Mongabay Kids. 5 series piece about bees. [LLink]

## Research Experience

Graduate Student Researcher
2021- Present
University of California San Diego, Holway Lab
NIH T-32 Pathways in Biological Sciences Student Trainee
Investigate how land-use change and climate change interact to drive native bee biodiversity patterns in habitat fragments in Mediterranean-type ecosystems. Mentor undergraduate and MS students.

## Museum Collections Assistant

2019-2021
University of Colorado Museum of Natural History Entomology Collection
Assistant to the collections manager of over 1 million arthropod specimens through curation, pest management, and writing policies and procedures. Educated the public on native bees by designing outreach specimen drawers for school, family, and adult audiences and writing monthly entomology-themed blog posts.

## Biological Aid

2017-2018
USDA-ARS Pollinating Insects Research Unit, Bumble Bee Lab in Logan, UT
Survey of Western USA for imperiled Western Bumble Bee. Dissected 600+ bumble bee queens who failed to initiate a nest in lab-reared conditions to diagnose parasites and pathogens.

## Field \& Lab Experience

## Field Crew Leader

Jun - Sept 2018
Ponisio Lab, University of California Riverside
Led field crew to survey plant-pollinator interactions on eight Madrean Sky Islands.

## Bee Biology Technician

Jan - June 2018
Utah State University Insect Collection in Logan, UT
Tested and wrote bee identification keys for $40+$ native and introduced bee genera.

## Seasonal Plant Ecologist

May - Nov 2016
Boulder County Parks and Open Space in Longmont, CO
Led field crew surveying vegetation to track disturbance regimes on plant community.
Field Technician
Mar - May 2016
Williams Lab, University of California Davis
Surveyed the Sonoran Desert for bees to measure impacts of solar array installations on bees.

## Seasonal Field Botanist

June - Oct 2015
National Park Service, Southern Colorado Plateau Network based in Flagstaff, AZ
Conducted botanical surveys at $90+$ long-term plots at five National Parks in the southwest.

## Museum Assistant

## Volunteer and Outreach Experience

Restorative Education About Plants (REAP)
2022 - Present
Visit a Granger Junior High School to help maintain a community garden to address food insecurity, promote interest in nature, and talk about future college options with students.
Volunteer Entomologist
Aug 2023-Present
San Diego Natural History Museum Entomology Collection
Pin and identify bee specimens collected as part of the California Insect Barcode Initiative (CIBI) and a project looking at the biodiversity of dunes on the Baja Peninsula.
Torrey Pines State Park Bee Monitoring Project
2022 - Present
Secure permit and collaborate with docents to monitor native bees on hiking trails with photo surveys to build a park-wide native bee checklist and gather baseline data.
La Jolla Historical Society Secret Garden Tour
May 2020
Hosted a tabling event to teach attendees about native bees.
Cabrillo National Monument Biodiversity Volunteer Taxonomic Expert
2021 - Present
Co-organized pollinator collection and curation courses to teach community college students how to conduct active pollinator surveys paired with photo surveyors. Mentor a student to curate and identify specimens.

## Classrooms for Climate Action

2020 \& 2021
Designed pollinator-focused activity for Colorado $2^{\text {nd }}$ grade classrooms.
Bee Boulder Pollinator Festival
2019 \& 2020
Prepared outreach video about the evolution of bees
Presentations

## Invited Talks

2024 Invertebrates. California Naturalists Course Guest Lecture.
2024 San Diego native bees. Cabrillo National Monument Naturally Speaking series. [Link] co-presented with Patricia Simpson
2023 San Diego native bees and the plants they love. San Diego Beekeeping Society. co-presented with Patricia Simpson
2023 Extinction risk of native bees in fragmented habitat islands in southern California Scrub habitat. California Native Plant Society, San Diego Chapter.
2023 Native bees need our help! Sierra Club Santa Margarita Group. [Link]
2020 Wild bee community response to an extreme flood. Colorado Pollinator Summit. [Link] Contributed Talks
2021 Wild bee community response to an extreme flood. Annual Entomological Society of America Meeting, virtual * 2021 Impacts and recovery status of wild bee communities following a catastrophic flood. Denver Audubon Society

## Posters

2023 Annual Ecological Society of America Meeting, Portland Oregon LLink]
2022 Annual Entomological Society of America Meeting, Vancouver, BC *
2017 Annual Entomological Society of America Meeting, Denver, CO * [Link

* Presentations with (*) won First Place President's Prize at the conference.


## Funding

| $\mathbf{2 0 2 3}$ | Mildred E. Mathias Graduate Student Research Grant | $\$ 2,000$ |
| :--- | :--- | :--- |
| $\mathbf{2 0 2 3}$ | Ecological Society of America: Real Brown \& JT Callahan Memorial Travel Awards | $\$ 500$ |
| $\mathbf{2 0 2 2}$ | Sea \& Sage Audubon Society: Bloom Hays Research Grant | $\$ 1,500$ |
| $\mathbf{2 0 2 1}$ | Jeanne M. Messier Memorial Endowed Fund | $\$ 3,500$ |
| $\mathbf{2 0 2 0}$ | Denver Audubon Society's Lois Webster Fund | $\$ 4,853$ |
| $\mathbf{2 0 2 0}$ | City of Longmont, Colorado Research Award | $\$ 4,942$ |
| $\mathbf{2 0 2 0}$ | University of CO Museum of Natural History Research Grant | $\$ 1,131$ |
| $\mathbf{2 0 2 0}$ | University of CO Museum of Natural History Collie Fund | $\$ 534$ |

## Specialized Training

2023 Entomology Collections Management Workshop. Cleveland Natural History Museum, Ohio.
2023 Wasp ID Course. Virtual.
2022 Introduction to Biodiversity Specimen Digitization. iDigBio, Virtual.
2019 The Bee Course. Southwestern Research Station. Portal, Arizona.

## Professional Affiliations

2022 - Present Ecological Society of America
2022 - Present California Native Plant Society, San Diego Chapter
2017 - Present Entomological Society of America. Systematics, Evolution, \& Biodiversity Section.
2019 - Present Entomology Collections Network
2021 - Present International Society of Hymenopterists

## Service

Reviewer for Scientific Reports (1), Conservation Biology (1), The Great Lakes Entomologist (1), Proceedings of the San Diego Society of Natural History (1)

