

Jessica L. Mullins
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EDUCATION University of Colorado Boulder **Expected Summer 2021**
Master of Science: Museum and Field Studies, Advised by Dr. M Deane Bowers
Thesis: Wild bee community response to extreme flooding

University of Colorado Boulder **May 2015**
Bachelor of Arts: Ecology and Evolutionary Biology, German Studies
Minor: Geography

REFEREED PUBLICATIONS **Mullins, J.L.**, J.P. Strange, A.D. Tripodi. 2020. Why Are Queens Broodless? Failed Nest Initiation Not Linked to Parasites, Mating Status, or Ovary Development in Two Bumble Bee Species of *Pyrobombus* (Hymenoptera: Apidae: *Bombus*), *Journal of Economic Entomology*, 113(2).

GRANTS Denver Audubon Society, Lois Webster Fund (USD 4,853) **2020**
City of Longmont Research Award, (USD 4,942) **2020**
CU Museum of Natural History Research Award, (USD 1,131) **2020**
Collie Fund - CU Museum of Natural History, (USD 534) **2020**

TALKS **Colorado Pollinator Summit** *invited* **2020**
Impacts of an extreme flood on wild bee communities

Entomological Society of America - virtual **2020**
Impacts of an extreme flood on wild bee communities

POSTERS **Entomological Society of America - Denver, CO** **2017**
Why don't queens get broody? Parasites, mating status, and ovary development in *Bombus huntii*. *First Place President's Prize*

RESEARCH EXPERIENCE **Graduate Research Assistant** **June 2019 - Present**
University of Colorado Museum of Natural History, Boulder, CO
Assist with general collection management including loans, pest control, database management. Identify and curate Hymenoptera specimens. Prepare public outreach materials including physical specimens and online reference material.

Biological Aid **Feb 2017 - June 2018**
USDA-ARS Pollinating Insects Research Unit, Bombus Lab, Logan, UT
Studied causes for bumble bee queen nest initiation failure by diagnosing parasites and pathogens, conducted survey across western USA for *Bombus occidentalis*, reared wild-caught bumble bee queens.

SPECIALIZED TRAINING **The Bee Course** **Aug 2019**
Southwestern Research Station, Portal, AZ
A ten day course on the systematics and biology of North and Central American bees.

FIELD & LAB EXPERIENCE	Field Crew Leader June - Sept 2018 <i>Ponisio Lab, University of California Riverside, Riverside, CA</i> Led field season in eight sky islands in the Southwestern US to collect plant-pollinator network data while ensuring the safety of crew members living in the backcountry.
	Bee Biology Technician Jan - June 2018 <i>Utah State University Insect Collection, Logan, UT</i> Tested and assisted in writing non-dichotomous identification keys in Lucid for the Exotic Bee ID website.
	Seasonal Plant Ecologist May - Nov 2016 <i>Boulder County Parks and Open Space, Longmont, CO</i> Lead field season surveying vegetation to track disturbance regimes on plant community and managed database in ArcGIS, Microsoft Excel.
	Field Technician Mar - May 2016 <i>Williams Lab, University of California Davis, Davis, CA</i> Captured, pinned, labeled and identified Mojave and Sonoran desert bees to determine impacts of solar array installations on native bee communities.
	Seasonal Field Botanist June - Oct 2015 <i>National Park Service, Southern Colorado Plateau Network, Flagstaff, AZ</i> Sampled for botanical and soil stability data in backcountry plots for a long-term monitoring dataset of five National Parks on the Colorado Plateau.
	Research Assistant Oct 2013 - May 2015 <i>Ecology and Evolutionary Biology Dept, University of Colorado, Boulder, CO</i> Collected, pinned, and labeled wild bees using passive and active sampling methods in agroecosystems and post-catastrophic flood zones.
	Field Assistant and Laboratory Volunteer Sept 2011 - May 2012 <i>Aridlands Ecology Lab, University of Colorado, Boulder, CO</i> Collected soil samples to determine the most effective tree removal treatments to minimize erosion in the Pinyon-Juniper Woodlands.
Biological Technician (Plants) Summers of 2011 & 2012 <i>Bureau of Land Management, White River Field Office, Meeker, CO</i> Conducted botanical surveys in the Piceance Creek Basin with the Assessment Inventory and Monitoring protocol. Crew leader in 2012.	
OUTREACH	Virtual Bee Boulder Pollinator Festival Sept 2020 Recorded outreach video about the evolution of bees.
	Classrooms for Climate Action Jan 2020 Invited to visit 2nd Grade classroom to teach students about wild bees.
	Bee Boulder Pollinator Festival Sept 2019 Hosted booth about pollination syndrome and non-honey bee pollinators.
PROFESSIONAL AFFILIATIONS	Entomological Society of America 2017 - present
	Colorado Native Plant Society 2019 - present