

Jessica L. Mullins

PhD Student

University of California San Diego, Division: Biological Sciences, Section: Ecology, Behavior, Evolution

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EDUCATION	University of California San Diego <i>PhD:</i> Biological Sciences, Advised by Dr. David Holway Thesis: Weathering the storm: Wild bee community response to an extreme flood Expected 2026
	University of Colorado Boulder <i>Master of Science:</i> Museum and Field Studies, Advised by Dr. M Deane Bowers Thesis: Weathering the storm: Wild bee community response to an extreme flood August 2021
	University of Colorado Boulder <i>Bachelor of Arts:</i> Ecology and Evolutionary Biology, German Studies <i>Minor:</i> Geography May 2015
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 <i>Pyrobombus</i> (Hymenoptera: Apidae: <i>Bombus</i>), <i>Journal of Economic Entomology</i> , 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 <i>invited</i> 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 <i>Bombus huntii</i> . <i>First Place President's Prize</i>
RESEARCH EXPERIENCE	Graduate Research Assistant June 2019 - May 2021 <i>University of Colorado Museum of Natural History, Boulder, CO</i> Assisted with general collection management including pest control, database management, loan processing, and insect identification and curation. Prepare public outreach materials and policies and procedures documents. Biological Aid Feb 2017 - June 2018 <i>USDA-ARS Pollinating Insects Research Unit, Bombus Lab, Logan, UT</i> Studied causes for bumble bee queen nest initiation failure by diagnosing parasites and pathogens, conducted survey across western USA for <i>Bombus occidentalis</i> , reared wild-caught bumble bee queens.

FIELD & LAB EXPERIENCE	Entomologist/Museum Technician May - August 2021 <i>Resasco Lab, University of Colorado Boulder, Boulder, CO</i> Curation and identification insect specimens collected from Pikes Peak as part of a 100-year resurvey of Experimental Pollination from Clements and Long. Determined taxonomic nomenclature of historical records. Trained undergraduates in curation.
	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 bee identification keys 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.
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.
SPECIALIZED TRAINING	The Bee Course Aug 2019 <i>Southwestern Research Station, Portal, AZ</i> A ten day course on the systematics and biology of North and Central American bees.
AFFILIATIONS	Entomological Society of America 2017 - present