

2019 LIST OF RMBL RESEARCHERS WITH APPROVED PROJECTS				
	Name	Last	Name of School	Title(s) of the Project(s)
1	Lon	Abbott	CU Boulder	Exhumation history of Tertiary plutons in the Elk and West Elk mountains from (U-Th)/He thermochronometry
2	Nicolas	Alexandre	University of California, Berkeley	Genomic Architecture of Bill Shape Broad-tailed Hummingbirds
3	Jaclyn	Aliperti	University of California, Davis	Causes and consequences of density variation in golden-mantled ground squirrels
4	Jill	Anderson	University of Georgia	Evolutionary consequences of climate change
5	Keeler	Andrea	University of California, Riverside	Investigating shifts in microbial metabolic phenology in the context of drought stress
6	Kaysee	Arrowsmith	Emory University	Exploring spatial variation in interaction diversity in plant-pollinator communities
7	Justin	Bain	Northwestern University	Understanding bee foraging, diet breadth, and the structure of plant-pollinator networks through the lens of nutritional ecology
8	Jared	Balik	North Carolina State University	Nutrient spiraling along a gradient of river hydrologies
9	John	Bargar	SLAC National Accelerator Laboratory (Stanford University)	Zinc transport mechanisms from alluvium into the upper Slate River
10	Max	Berkelhammer	University of Illinois at Chicago	Space and time dynamics of transpiration in the East River watershed: biotic and abiotic controls
11	Benjami	Blonder	Arizona State University	Montane and alpine plant community response to climate change
12	Daniel	Blumstein	UCLA	Field studies of Marmots at the RMBL
13	Carol	Boggs	University of South Carolina	The role of environmental variation in population dynamics and life history: case studies in three butterfly systems
14	Ian	Breckheimer	Harvard University Herbaria	Scaling Plant Reproductive Phenology using Drone Imagery
15	Martin	Briggs	US Geological Survey Hydrogeophysics Branch	A last line of defense: understanding unique coupled abiotic/biotic processes at upwelling groundwater interfaces
16	Heather	Briggs	University of California, Irvine	Dissecting the cognitive and neuroanatomical roots of pollinator foraging behavior
17	Alison	Brody	University of Vermont	The importance of pollen theft to reproductive success in <i>Polemonium foliosissimum</i> .
18	Berry	Brosi	Emory University	QUANTITATIVE NETWORK STRUCTURE AND FUNCTION; SNOWMELT ACCELERATION AND POLLINATION NETWORK STRUCTURE AND FUNCTION
19	Diane	Campbell	University of California, Irvine	Long term studies of plant evolution in an era of global change

20	Paul	CaraDonna	Chicago Botanic Garden	Uniting demographic life history theory and pollination biology to understand the ecological consequences of pollinator declines
21	Mariah	Carbone	Northern Arizona University	Quantifying environmental and biological controls on soil CO2 fluxes in East River valley forests
22	Lauren	Carley	Duke University	Ecological contexts of balancing selection in nature
23	Kelly	Carscadden	University of Colorado Boulder	Demography and the germination niche: Species distributions and sources of life history variation in hybridizing <i>Potentilla</i>
24	Alma	Carvajal Acosta	University of California, Irvine	Disentangling direct and indirect effects of climate change on tri-trophic interactions
25	Aimee	Classen	UVM	WaRM, Root Phenology, Warming Meadow, Plant phenology
26	Ross	Conover	Paul Smith's College	Life history tradeoffs of high elevation breeding sparrows
27	Jonathar	Coop	Western Colorado University	Paleo-ecological evaluation of fire and vegetation transformations in a western Colorado landscape
28	Elsa	Cousins	University of Massachusetts Amherst	Phytochemistry of invasive mustard <i>Thlaspi Arvense</i>
29	Justin	Dee	Missouri	Can herb-chronology be used to monitor population dynamics of herbaceous species? An investigation using long-term data from the U.S. Rocky Mountains and tallgrass prairie
30	Amanda	DelVecchia	North Carolina State University	Discovering geologic and ancient methane contributions to contemporary food webs
31	Lee	Demi	North Carolina State University	Interactive effects of temperature and oxygen partial pressure on aquatic insect life history; The role of algal derived fatty acids in detritus-based food webs
32	Christiar	Dewey	Stanford University	Soil Carbon Dynamics in East River Floodplain Sediments
33	Bret	Elder	Louisiana State University	General Observational Studies on Plant-Herbivore Interactions
34	Amy	Ellwein	RMBL	Soil geomorphologic controls on the distribution of plant communities AND Cenozoic landscape evolution of watersheds in the Upper Gunnison Basin
35	Brian	Enquist	Brian J Enquist	Scaling long-term functional attributes of plants, communities, and ecosystems: Responses to climate change across elevational gradients:
36	Natalie	Fischer	University of California, Riverside	Wild bumble bee energetics: underlying mechanisms and ecological drivers
37	Jessica	Forrest	University of Ottawa	POPULATION DYNAMICS AND LIFE HISTORIES OF SUBALPINE MASON BEES
38	Hamish	Greig	University of Maine	Ecosystem consequences of species range shifts
39	Anna	Grinath	Middle Tennessee State University	Scientific talk in the field: Appropriation of specialized forms of talk within the activities of a scientific community at a biological field station

40	Josh	Grinath	Middle Tennessee State University	Effects of chronic low-level nitrogen deposition on consumer control of a plant-arthropod community
41	John	Harte	University of California at Berkeley	Disturbance Macroecology
42	Whiteman	Howard	Murray State University	Evolutionary and Conservation Ecology of Amphibians
43	Parris	Humphrey	Harvard University	Ecology and evolution of host-microbe interactions under co-infection
44	Amy	Iler	Chicago Botanic Garden	Uniting demographic life history theory and pollination biology to understand the ecological consequences of pollinator declines
45	Brian	Inouye	Florida State University	Phenology, and Associational Effects
46	David	Inouye	University of Maryland	Flowering phenology, plant demography, and hummingbird banding
47	Rebecca	Irwin	NC State University	Effect of climate variability on bee phenology and abundance; Secondary chemistry of floral rewards; Ecology and management of invasive plants; Tick distributions
48	Diana	Jerome	Northwestern University and The Chicago Botanic Garden	The effects of climate change on plant phenology: teasing apart the effects of early snowmelt and warmer temperatures
49	Stephan	Kivlin	University of Tennessee	Warming responses to belowground ecosystems
50	Amanda	Klemmer	University of Maine	Ecosystem consequences of species range shifts
51	Lara	Kueppers	UC Berkeley	Climate effects on forest structure, dynamics and hydrologic function
52	David	Lee	Florida International University	Anthocyanins in senescing leaves of Rocky Mountain Plants
53	Amelia	Litz	Northwestern University & The Chicago Botanic Garden	Nest Site Characteristics and Timing of Emergence in Solitary Ground-Nesting Bees
54	Joshua	Lynn	University of New Mexico	Biotic interactions and demography in a changing climate
55	Kate	Maher	Stanford University	East River biogeochemical monitoring and sampling - Stanford
56	Michael	Mann	University of New Mexico	Priority Effects in Fungal Endophyte Communities
57	Ian	Miller	Princeton University	Searching for the limits to pathogen adaptation with a wildflower model system
58	Thomas	Mitchell-Olds	Duke University	Boechera strict ecological genetics (or something similar)
59	Kailen	Mooney	University of California, Irvine	Causes and consequences of sex-specific responses to climate change

60	Emily	Mooney	UCCS	Snow melt-induced changes in phenology as direct and indirect drivers of herbivore abundance
61	Nancy	Moran	University of Texas at Austin	Gut microbiota of bumble bees living at different elevations
62	Annika	Nelson	University of California, Irvine	Effects of mutualist identity and diversity on herbivore populations
63	Jane	Ogilvie	Chicago Botanic Garden	Bumble bee responses to floral resource variation
64	Anne	Panetta	University of Colorado, Boulder	The roles of local adaptation, local extinction, and migration in a mountain wildflower's response to contemporary and experimental climate change
65	Bobbi	Peckarsky	Bobbi Peckarsky	Integrating stream research, teaching and outreach to inform advocacy by conservation organizations and influence policy makers
66	William	Petry	Princeton University	Causes and consequences of sex-specific responses to climate change
67	Mary	Price	University of California/University of Arizona	Pollination and reproduction of montane wildflowers
68	Nicole	Rafferty	University of California, Riverside	Temporal and spatial shifts in plant-pollinator communities under climate change
69	Manoj K	Rathnayake	University of New Brunswick	Examine the evolutionary ecology of multifaceted floral traits by measuring correlational selection for complex phenotypes
70	Nitin	Ravikanthachari	University of South Carolina	SPATIAL VARIATION OF AN EXOTIC PLANT ON A NATIVE HERBIVORE
71	Courtenay	Ray	Courtenay Ray	Mechanisms of alpine community assembly
72	Peter	Raymond	Yale FES	Watershed Rules of Life
73	Daniella	Rempe	University of Texas at Austin	The weathered bedrock vadose zone: A hidden control on water availability in the western United States
74	Kenna	Rewcastle	The University of Vermont	Investigating the impact of climate change on forage plants
75	Sébastien	Rivest	University of Ottawa	Evolutionary causes and consequences of pollen defense
76	Timberly	Roane	University of Colorado Denver	Microbial characterization of the Mt. Emmons Fen
77	Aradhan	Roberts	Lund University	Forest Disturbance and Insect Herbivory
78	Lorah	Seltzer	University of Arizona	Plant community transplant
79	Isaac	Shepard	University of Maine	Community and Ecosystem Consequences of Upslope Range Shifts in Alpine Ponds
80	Ojaswee	Shrestha	University of South Carolina	Exploring the Relationship Between Flight Morphology and Metabolic Rates in <i>E. gillettii</i>
81	Rosemarie	Smith	Idaho State University	Ecology and Behavior of Burying Beetles
82	Lara	Souza	The University of Oklahoma	Plant versus microbial control on soil carbon stocks and fluxes in a warming world

83	Heidi	Steltzer	Fort Lewis College	Vegetation science on impacts of earlier snowmelt to support DOE SFA research
84	Michael	Stemkovski	Utah State University	Modeling the seasonal abundance and population dynamics of solitary bees
85	Christop	Still	Oregon State	Space and time dynamics of transpiration in the East River watershed: biotic and abiotic controls
86	Kristina	Stinson	University of Massachusetts, Amherst	Ecology and Impacts of Invasive Mustards in Subalpine Meadows
87	Mary	Stoddard	Princeton University	Mechanisms of Color Vision in Hummingbirds
88	Brad	Taylor	North Carolina State University	Fish, insect, algae, and nutrient interactions along natural and human-altered environmental gradients
89	Zachary	Taylor	Berry College	Paleoenvironmental reconstruction in the greater RMBL area from lake and fen sediments
90	Nora	Underwood	Florida State University	RMBL Phenology Project; associational effects
91	Dirk	Van Vuren	University of California, Davis	Timing of reproduction in golden-mantled ground squirrels: causes, consequences, and implications for climate change
92	Maggie	Wagner	University of Kansas	Developing <i>Boechera stricta</i> as a model system in plant-microbiome evolution
93	Richard	Wanty	US Geological Survey	Characterization of groundwater flow and associated geochemical fluxes in mineralized and unmineralized bedrock in the upper East River and adjacent watersheds, Colorado
94	Nickolas	Waser	University of California/University of Arizona	Pollination and reproduction of montane wildflowers
95	Laura	Watt	Sonoma State University	Continuing Archival Research on RMBL History
96	Ward	Watt	Unic. of S. Carolina	Molecular evolution of <i>Colias</i> (Lepidoptera)
97	Caitlin	Wells	Colorado State University	Timing of reproduction in golden-mantled ground squirrels: causes, consequences, and implications for climate change
98	Noah	Whiteman	UC-Berkeley	Broad-tailed hummingbird genomics
99	Kenneth	Whitney	University of New Mexico	Evolution of Flower Color
100	Rick	Williams	Idaho State University, Idaho Museum of Natural History	Building Collections Resources for Research and Education at RMBL; and Using Archival Herbarium Data to Track Vegetation Change in the East River Basin
101	Ken	Williams	Lawrence Berkeley National Laboratory	Watershed Function SFA
102	Matthew	Winnick	University of Massachusetts Amherst	Quantifying Stream CO ₂ Concentrations and Fluxes in the East River Watershed, CO

103	Scott	Wissinger	Allegheny College	Range Shifts of Aquatic Invertebrates along Elevational and Permanence Gradients in Alpine Ponds & Lakes
104	Lydia	Wong	University of Ottawa	Impacts of drought on the reproductive output of solitary bees in a subalpine habitat
105	Carrie	Wu	University of Richmond	Spatial genetic structure of alpine Mimulus






























