

Curriculum Vitae

Katrina M. Derieg

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EDUCATION

- M.S. Biology**, University of New Mexico 2020
Thesis: “Phylogeography and systematics of woodrats (genus: *Neotoma*) in the American Southwest”
Advisor: Joseph A. Cook
- B.S. Biology**, University of New Mexico 2017
Concentration: Ecology, Evolution, and Organismal Biology
Minor: Earth and Planetary Sciences

PROFESSIONAL EXPERIENCE

- University of Montana – Philip L. Wright Zoological Museum** 2025-Present
Broader Impacts Group | Division of Biological Sciences (DBS)
Curator | Museum Collections & Outreach Coordinator
- Natural History Museum of Utah**, Salt Lake City, UT 2020-2024
Vertebrate Zoology
Collections Manager
- University of New Mexico**, Albuquerque, NM 2020
Department of Biology
Conservation Biology (BIOL 379L) Teaching Assistant
- University of New Mexico**, Albuquerque, NM 2019
Department of Biology
Ecology and Evolution (BIOL 303L) Teaching Assistant
- University of New Mexico – Museum of Southwestern Biology**, Albuquerque, NM 2018-2019
Division of Mammals
Graduate Assistant
- University of New Mexico**, Albuquerque, NM 2018
Department of Biology
Mammalogy (BIOL 489L) Teaching Assistant
- University of New Mexico – Museum of Southwestern Biology**, Albuquerque, NM 2017-2018
Division of Mammals
Museum Technician
- University of New Mexico – Museum of Southwestern Biology**, Albuquerque, NM 2016-2017
Division of Birds
Museum Technician
- Sandia National Laboratories**, Albuquerque, NM 2014-2018
International Biological and Chemical Threat Reduction (IBCTR)
Technical Intern

FIELD EXPERIENCE

- Tushar & Pavant Ranges, Utah, USA** 2024
Project: Resurvey of the mammals of the Tushar & Pavant ranges
Collaboration with Utah State University
- St. George Greater Metro Area, Utah, USA** 2023-Present
Project: Rodents as reservoirs of Valley fever in SW Utah
Collaboration with Departments of Epidemiology and Atmospheric Sciences, University of Utah
- House Range, Utah, USA** 2023-Present
Project: Comparing modern day small mammal fauna to Holocene faunal remains in multiple caves
Collaboration with NHMU Paleontology and UofU Department of Anthropology
- Goblin Valley State Park, Utah, USA** 2022-Present
Project: Surveying small mammal of Goblin Valley State Park
Collaboration with Utah Division of Natural Resources

Intermountain West Region, Arizona, Nevada & Utah, USA	2022-Present
Project: Systematic revision of the canyon mouse (<i>Peromyscus crinitus</i>)	
Collaboration with Monte L. Bean Life Science Museum (BYU)	
Northeast Region, Utah, USA	2022
Project: Bat Blitz – surveying the bats of Utah	
Collaboration with Utah Bat Conservation Cooperative (UBCC)	
Boomerang Cave, Bear River Range, Utah, USA	2021-Present
Project: Comparing modern day small mammal fauna to Holocene faunal remains in Boomerang Cave	
Collaboration with NHMU Paleontology and UofU Department of Anthropology	
Pine Valley, Utah, USA	2021
Project: Bat Blitz – surveying the bats of Utah	
Collaboration with Utah Bat Conservation Cooperative (UBCC)	
Great Basin National Park, Nevada, USA	2021-Present
Elevational ecotones of two woodrats species (genus <i>Neotoma</i>)	
Collaboration with University of Nevada Reno	
Mogollon Rim Region, Arizona & New Mexico, USA	2021-Present
Project: Phylogeography of Stephen’s woodrat (<i>Neotoma stephensi</i>)	
Lincoln & Nye County, Nevada, USA	2020-Present
Project: Molecular systematics of the <i>Perognathus longimembris</i> -group	
Collaboration with Museum of Vertebrate Zoology (MVZ, UCB) and Monte L. Bean Life Science Museum (BYU)	
Greater Gila Region, New Mexico, USA	2018-2019
Project: Phylogeography of <i>Neotoma</i> in the Southwestern US	
El Parque Internacional La Amistad, Panamá	2018
Project: Small Mammal Parasites/Pathogens of Panama Panama Hantavirus Project	
Collaboration with Instituto Conmemorativo Gorgas	
El Malpais National Conservation Area, New Mexico, USA	2017-2019
Project: Mammals of El Malpais Prairie Ecosystem	
Collaboration with Bureau of Land Management	
Pecos Wilderness, New Mexico, USA	2017-2019
Project: Metagenomic analysis of the gut microbiome and helminth community of shrews in the genus <i>Sorex</i>	
Collaboration with Georgia Southern University	
<u>CONTRIBUTIONS TO NATURAL HISTORY COLLECTIONS</u>	
Museum of Southwestern Biology	2016-2020
Birds collected &/ prepared: 30	
Mammals collected &/ prepared: 1,164	
Parasites collected &/ prepared: 229	
Natural History Museum of Utah	2020-Present
Birds collected &/ prepared: 20	
Mammals collected &/ prepared: 619	
Reptiles/Amphibians collected &/ prepared: 32	
Parasites collected &/ prepared: 57	
<u>PROFESSIONAL SERVICE</u>	
Utah Division of Wildlife Resources	2022-Present
Utah Wildlife Action Plan Partner	
Species of Greatest Conservation Need Committee	
Agency Integration Committee	
Utah Bat Conservation Collaborative	2021-Present
American Society of Mammalogists	2021-Present
Systematic Collections Committee	
UNM Biology Graduate Student Association	2019-2020
Scholarship Committee Officer	
Grant Reviewer	

PUBLICATIONS

- Odom, T.L., Park, A.W., Cook, J.A., Dunnun, J.L., Liphardt, S.W., **Derieg, K.M.**, Parsons, D.J., Greiman, S.E. 2024. Seasonal succession of cestode metacommunities in two North American *Sorex* shrews. *Journal of Parasitology – In Press*.
- Conrad, C., Inglis, J., Wende, A., [et al. including **Derieg, K.M.**]. 2023 Anthropogenic uranium signatures in turtles, tortoises, and sea turtles from nuclear sites. *PNAS Nexus*.
- O'Brien, K.P., Irmis, R.B., Coltrain, J. B., Dalmas, D.M., **Derieg, K.M.**, Evans, T., Richards, E.S., Richards, F.M., Rickart, E.A., Faith, J.T. 2023. The utility of alpine cave fossil assemblages for zoological census: an example from northern Utah, U.S.A. *Journal of Mammalogy*.
- Peterson, D.E., Dunnun, J.L., Liphardt, S.W., Boegler, K.A., Eckerlin, R.P., Hoberg, E.P., Perez-Arrigage, M.O., **Derieg, K.M.**, Garnand, D., Campbell, M.L., Cook, J.A. 2023. A Diverse Flea (Siphonaptera) Assemblage from the Small Mammals of Central New Mexico. *Journal of Parasite Biodiversity*.
- Halm, T. D., **Derieg, K. M.**, Dittmer, D. E., Wilkins, A., Rickart, E.A. 2022. Rediscovery and redescription of the holotype of *Crotalus concolor* (Midget-faded rattlesnake). *Herpetological Review*.
- Derieg, K.M.**, Cook, J.A., Gutiérrez, K., Liphardt, S.W., & Malaney, J.L. Seeing ghosts: mitonuclear discordance in woodrats (genus *Neotoma*) points to a complex history of asymmetric mitochondrial introgression. *In prep – draft available*.
- Derieg, K.M.**, Fernandez, J.A.F., Gutiérrez, K., Liphardt, S.W., Malaney, J.L., & Cook, J.A. The impact of past climate change on the distribution of two parapatric woodrat species in the American Southwest. *In prep – draft available*.

PROFESSIONAL MEMBERSHIPS

Society for the Preservations of Natural History Collections	2020-Present
Southwestern Association of Naturalists	2019-Present
Society of Systematic Biologists	2018-Present
American Society of Mammalogists	2017-Present

SCIENTIFIC PRESENTATIONS

- Kailey J. Mahoney*, **Katrina M. Derieg**, Eric A. Rickart, Katharine S. Walter. 2024. Undercover carrier: Rodents as hidden reservoirs for pathogenic fungi transmission. American Society of Mammalogists. Boulder, CO.
- Katrina M. Derieg**, Morgan R. Cofrin, Schuyler W. Liphardt, Alyson E. Wilkins. 2023 Merging citizen science and natural history collections for large-scale mobilization of trait data. 2023. American Society of Mammalogists-International Mammalogical Congress Joint Meeting, Anchorage, AK.
- Logan M. Roberts* and **Katrina M. Derieg**. Building parasite-host collection in the Intermountain West. 2023. American Society of Mammalogists-International Mammalogical Congress Joint Meeting, Anchorage, AK.
- Al Ruedas, **Katrina M. Derieg**, Eric A. Rickart. 2023. The mammals of Goblin Valley State Park, UT: integrating museums and management. 2023 American Society of Mammalogists-International Mammalogical Congress Joint Meeting, Anchorage, AK.
- Katrina M. Derieg**, Ellen Eiriksson, Eric A. Rickart, Lynne M. Zummo. 2022. Utilizing museum collections and community collaborations to study the establishment of fox squirrels in Utah. American Society of Mammalogists, Tucson, AZ,
- Katrina M. Derieg**, Ellen Eiriksson, Eric A. Rickart, Lynne M. Zummo. 2022. Successes in utilizing museum collections and community collaborations to study the establishment of eastern fox squirrels in Utah. Society for the Preservation of Natural History Collections, Edinburgh, UK.
- Katrina M. Derieg**, Keila Gutiérrez, Schuyler W. Liphardt, Jason L. Malaney, Joseph A. Cook. Mitonuclear discordance in woodrats (genus *Neotoma*) points to a complex history of asymmetric mitochondrial introgression. 2021. American Society of Mammalogists, Virtual Meeting.
- Katrina M. Derieg**, Schuyler W. Liphardt, Joseph A. Cook. A potentially new woodrat endemic to the Gila. 2020. Gila Symposium, Silver City, NM
- Katrina M. Derieg**, Keila Gutiérrez, Sophie C. Farr, Joseph A. Cook. Range dynamics of a high-elevation rodent (*Neotoma mexicana*) in the American Southwest. 2019. American Society of Mammalogists, Washington D.C.

Keila Gutiérrez*, Sophie C. Farr*, **Katrina M. Derieg**, Joseph A. Cook. Testing range limits of two cryptic species of *Neotoma*: Is the Rio Grande a barrier? 2019. American Society of Mammalogists, Washington D.C.
 Schuyler W. Liphardt*, **Katrina M. Derieg**, Joseph A. Cook. Deciphering the *Neotoma albigula* complex of southwestern New Mexico. 2018. American Society of Mammalogists, Manhattan, KS.

INVITED LECTURES

NHMU Volunteer Breakfast Club Learning Series	2024
Ornithology (BIOL 5350), University of Utah, Salt Lake City, UT	2022, 2023
NHMU Brownbag Seminar, Salt Lake City, UT (virtual)	2021

SCIENCE COMMUNICATION & OUTREACH

NHMU & USFWS Big Bend BioBlitz, West Jordan, UT	2022
Mammal Research Showcase, Great Basin National Park, NV	2022
NHMU Stay Curious Utah (virtual), Salt Lake City, UT	2022
NHMU Teen Explainers, Salt Lake City, UT	2021, 2022
NHMU Squirrel Fest, Salt Lake City, UT (virtual and in-person events)	2020, 2021, 2022
NHMU Behind the Scenes, Salt Lake City, UT (virtual and in-person events)	2020, 2021, 2022, 2023
MSB Open House, Albuquerque, NM	2017, 2018, 2019, 2020

MENTORSHIP

Ashlyn Adakai, undergraduate student (anticipated graduation: 2026), Native American Research Initiative. Project: Rodents as reservoirs for Valley fever.

Renaiah Corrian, undergraduate student (anticipated graduation: 2026), BRIDGEUP. Project: Rodents as reservoirs for Valley fever.

Emma Moon, undergraduate student (B.S. Anthropology, 2024). Vertebrate zoology curatorial assistant – Robin Wood Internship.

Logan Roberts, undergraduate student (anticipated graduation: May 2025). Parasitology Intern – Robin Wood Internship.

Rowan Parker, undergraduate student (B.S. Biology, 2023). Vertebrate zoology curatorial assistant – Robin Wood Internship.

Derek Halm, graduate student (PhD 2023). Re-curation of UMNH Herpetology collection.
 Current position: postdoctoral researcher at University of California San Diego.

Sophie Far, undergraduate student (BS 2020). Phylogeography of *Neotoma* in the Southwestern US.
 Current position: Graduate student in Environmental Policy at University of Michigan, Ann Arbor, MI.

Keila Gutiérrez, undergraduate student (BS 2020). Phylogeography of *Neotoma* in the Southwestern US.
 Current position: Ecologist at Bosque Ecosystem Monitoring Program, Albuquerque, NM.

FUNDING

Burroughs Wellcome Fund Climate and Health Interdisciplinary Award. “Valley fever emergence in southwestern UT” Lead PI: Katharine Walter. \$375,000.	2024-2026.
NSF Award 2228390. “Collaborative Research: Ranges: Building Capacity to Extend Mammal Specimens from Western North America.” Lead PI: Brian McLean. \$2,315,000.00 with \$36,634 to NHMU.	2023-2025.
University of Utah Global Change and Sustainability Center Research Funds: “Investigating Change and Hybridization in Two Utah Toad Species”. \$3,000.	2022
Graduate Research Allocation Committee Research Grant. \$500.	2020
Natural History of the Gila Symposium Travel Award. \$200.	2020
Joseph Gaudin Scholarship. \$1,500.	2019
Graduate Research Allocation Committee Travel Grant. \$300.	2018,2019