

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

- Curator | Museum Collections and Outreach Coordinator** 2025-Present
 Philip L. Wright Zoological Museum, University of Montana
- Collections Manager of Vertebrate Zoology** 2020-2025
 Natural History Museum of Utah, University of Utah
- Graduate Assistant** 2018-2019
 Museum of Southwestern Biology, University of New Mexico
 Division of Mammals
- Teaching Assistant** 2018-2020
 Department of Biology, University of New Mexico
 (Mammalogy; Ecology & Evolution; Conservation Biology)
- Museum Technician** 2016-2018
 Museum of Southwestern Biology, University of New Mexico
 Division of Birds and Division of Mammals
- Technical Intern** 2014-2018
 Sandia National Laboratories, Global Chemical and Biological Security (GCBS, formerly IBCTR)

TEACHING (*primary instructor | **support instructor)

- *Natural History & Scientific Collections** (Museum Studies - ARTH 584), University of Montana 2025,2026
- **Mammalogy** (BIOO 475), University of Montana 2025,2026

FIELD PROJECTS

- Western Region, Montana, USA** 2026
 Project: Small mammals of Montana: A modern natural history resurvey
- Mount Haggin WMA, Montana, USA** 2025
 Project: The evolutionary and physiological effects of heavy metal contamination on small mammals in the Anaconda Smelter Superfund Site
- 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 (*Peromyscus crinitus*)
 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>	
Philip L. Wright Zoological Museum	2025-Present
Birds collected &/ prepared: ~20 <i>uncataloged specimens</i>	
Mammals collected &/ prepared: 44, 100+ <i>uncataloged specimens</i>	
Parasites collected &/ prepared: ~ 50 <i>uncataloged specimens</i>	
Natural History Museum of Utah	2020-2025
Birds collected &/ prepared: 38	
Mammals collected &/ prepared: 1,118	
Reptiles/Amphibians collected &/ prepared: 32	
Parasites collected &/ prepared: 575	
Museum of Southwestern Biology	2016-2020
Birds collected &/ prepared: 30	
Mammals collected &/ prepared: 1,396	
Parasites collected &/ prepared: 229	
Total cataloged specimens: 3,462	2016-Present
<u>PROFESSIONAL SERVICE</u>	
University of Montana Conference on Undergraduate Research, Reviewer	2026
Biodiversity Informatics, Reviewer	2026
Citizen Science: Theory and Practice, Reviewer	2026
Integrative Conservation, Reviewer	2025
Utah Division of Wildlife Resources, Utah Wildlife Action Plan Partner	2022-2024
Species of Greatest Conservation Need Committee	
Agency Integration Committee	
Utah Bat Conservation Collaborative	2021-2024
American Society of Mammalogists, Systematic Collections Committee	2021-Present

UNM Biology Graduate Student Association, Scholarship Committee Officer, Grant Reviewer.....2019-2020

PUBLICATIONS

- Snyder, A.M., Eiriksson, E., Rickart, E.A., Showers Corneli, P., **Derieg, K.M.**, Zummo, L. 2025. GLAMS Special Collection: Fox Squirrels in Utah: An opportunity for advancing participatory science and forging community connections at a natural history museum. *Accepted by Citizen Science: Theory and Practice*.
- Sussman, J., **Derieg, K.M.**, Perry, K.D., Adakai, A., Corrian, R., Merow, C., Brewer, S.C., Walter, K.S. 2026. Wildlife hosts predict the distribution of reported coccidioidomycosis in the western United States. *Preprint available on medRxiv*. <https://doi.org/10.64898/2026.03.10.26348058>
- Odom, T.L., Park, A.W., Cook, J.A., Dunnum, J.L., Liphardt, S.W., **Derieg, K.M.**, Parsons, D.J., Greiman, S.E. 2025. Seasonal succession of cestode metacommunities in two North American *Sorex* shrews. *Journal of Parasitology*.
- Paul, D. L., Thompson, C. W., Arroyo, [et al. including **Derieg, K.M.**].(2025). Harnessing natural history collections for collaborative pandemic preparedness. *BioScience*.
- McLean, B. S., Bloom, D., [et al. including **Derieg, K.M.**]. (2025). Extending mammal specimens with their essential phenotypic traits. *Journal of Mammalogy*, 106(5), 1282-1291.
- 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., Dunnum, 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

Museums Association of Montana	2026-Present
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 (*student mentee presenters)

- Katrina M. Derieg**, Nathalie Wolfram. 2026. Strength in numbers: A collective approach to impact and resilience. Museums Association of Montana. Helena, MT.
- Katrina M. Derieg**. 2025. Peeking into the drawers of Montana's largest mammal collection. American Society of Mammalogists. West Lafayette, IN.
- Katrina M. Derieg**. 2025. Grizzlies of Yellowstone: The Craighead brothers' legacy. Society for the Preservations of Natural History Collections. 2025. Lawrence, KS.
- 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

Ornithology (BIOO470), University of Montana	2026
Mammalogy (BIOO475), University of Montana	2025
University of Montana Wildlife Society Chapter Meeting	2025
NHMu Volunteer Breakfast Club Learning Series	2024
NHMu Youth Teaching Youth	2023
Ornithology (BIOL 5350), University of Utah	2022, 2023
NHMu Brownbag Seminar (virtual)	2021

SCIENCE COMMUNICATION & OUTREACH

BBC Nature Documentary – Rocky Mountains	2026
Montana Science Fair, Missoula, MT	2025, 2026
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

- Brooklyn Kallenberger, undergraduate student (B.S. Wildlife Biology, 2026), Graslie Curiosity Intern. Project: Curating mammal specimens screened for heavy metal contaminants in Montana.
- Gracie Henrie, undergraduate student (B.S. Wildlife Biology, 2026), Graslie Curiosity Intern. Project: Curating mammal specimens screened for Sin Nombre Virus in Montana.
- Violet Jackson, high school student. Project: Avian parasites in Montana
- Chris Shoulders, undergraduate student (B.S. Wildlife Biology, 2025), Graslie Curiosity Intern. Project: Georeferencing museum records at the UMZM.
- Ashlyn O’Kert, undergraduate student (B.S. Wildlife Biology, 2025), Graslie Curiosity Intern. Project: Cataloging UMZM mammal teaching collection.
- 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 (B.S. Anthropology, 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

NSF Proposal. “Collaborative Research: Did thermal demands drive the evolution of extreme metabolism at the lower limit of mammalian body size?” *In Review*

Institute of Museum and Library Services: 21st Century Museum Professionals Program, “Growing Montana’s Natural History Museum Workforce.” \$500,000..... *...In Review*

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