

## Madeline P. Ball

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### Education

Ph.D.	University of Oregon, Department of Earth Sciences, September 2024 - present ( <i>expected June 2029</i> )
B.Sc.	The Ohio State University, Evolution and Ecology, with Research Distinction, minor in Biology, December 2023 <i>Thesis: "The ecology and evolution of bite force in geomorph rodents"</i>
A.A.	The Ohio State University, May 2021

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### Research Experience

2025 - present	Research Assistant, Earth Sciences, University of Oregon
2020 - 2023	Undergraduate Researcher, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University

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### Teaching Experience

2025	Graduate Teaching Fellow, EARTH 203: History of Life, University of Oregon
2024	Graduate Teaching Fellow, EARTH 101: Exploring Planet Earth, University of Oregon
2023	Undergraduate Teaching Assistant, BIO 1114: Form, Function, Diversity, and Ecology, The Ohio State University

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### Funding and Awards

2025	Condon Scholarship, University of Oregon	\$1500
2024, 2025	Lokey Graduate Science Award, University of Oregon	Total: \$6000
2024	PBDB Workshop Grant	\$1000
2024	NAPC D&I and Student Travel Grant	\$500
2023	Margaret A. and Theodore A. Hendricks Travel Fund	\$2000
2022, 2023	Dean's Undergraduate Research Scholarship, The Ohio State University	Total: \$1000
2022	Conference Travel Award, The Ohio State University	\$625
2022	Undergraduate Research Apprentice Program, The Ohio State University	\$5500

2022	Stone Laboratory Scholarship, The Ohio State University	\$550
2022	Andy Vick and Charles River Laboratory Award for Biology and Chemistry, The Ohio State University	\$1000
2021	Conference Travel Award, The Ohio State University	\$760
2021	Charlotte Mangum Student Support Program, Society for Integrative and Comparative Biology (SICB)	

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### Workshops & Field Experience

2025	John Day & Eastern, OR, USA Assisted with fieldwork in Arikareean-aged deposits of the John Day Basin, Barstovian-aged deposits of the Succor Creek Fm. and unnamed formation near Beatys Butte, as well as the Hemingfordian deposits of Coglan Buttes.
2024	North American Rodents: Landscapes, Ecology, and Evolution (NARLEE) Field Trip
2024	Paleobiology Database Summer Workshop, George Mason University, Fairfax, VA
2024	North American Rodents: Landscapes, Ecology, and Evolution (NARLEE) Workshop, Mammalian diversification and distribution dynamics on evolving landscapes
2023	Porrentruy, Switzerland, JURASSICA Museum Excavation of actinopterygian, crocodylomorph, and testudinate fossils from the Kimmeridgian-aged deposits of the Reuchenette Fm.

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### Conference Presentations & Abstracts

**Ball, M.P.**, Poorboy, D.M., Caledo, J.J.-M. Exploring the evolution and ecology of geomorph rodents using bite force analysis and GIS. North American Paleontological Convention (2024), Ann Arbor, MI. [Poster]

**Ball, M.P.**, Poorboy, D.M., Caledo, J.J.-M. A Deep Time Perspective on Bite Force: A Case Study in Geomorph Rodents. Annual Meeting of the Society of Vertebrate Paleontology (2023), Cincinnati, OH. [Poster]

Hunt, M.E., **Ball, M.P.**, Claxton, A., Martin, R.A., Jimenez-Hidalgo, E., Caledo, J.J.-M. Contrasting body size evolution in entoptychine and geomyine gophers (Rodentia, Geomyidae). Annual Meeting of the Society of Vertebrate Paleontology (2023), Cincinnati, OH. [Poster]

**Ball, M.P.**, Poorboy, D.M., Socki, F., Caledo, J.J.-M. The ecology and evolution of bite force in geomorph rodents. Great Lakes Student PaleoConference (2022), Chicago, IL. [Poster]

**Ball, M.P.**, Poorboy, D.M., Socki, F., Caledo, J.J.-M. 2021. Bite force estimates in geomyoid rodents: ecological and evolutionary implications. Society for Comparative and Integrative Biology Annual Meeting (2022), Phoenix, AZ. [Poster]

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## Advisors

### Ph.D. Committee:

Dr. Samantha Hopkins (Advisor), Earth Sciences, University of Oregon

Dr. Brittany Erikson, Computer Sciences, Earth Sciences, University of Oregon

Dr. Nicholas Famoso, Earth Sciences, University of Oregon; John Day Fossil Beds NM, OR

Dr. Stephen Frost, Anthropology, University of Oregon

### Undergraduate thesis:

Dr. Jonathan Caledo (Advisor)

Dr. Andreas Chavez

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## Professional Memberships

2025 - present	Geological Society of America
2025 - present	Society of Vertebrate Paleontology
2024 - present	Paleontological Society

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## Outreach

2024 - present	University of Oregon Museum of Natural and Cultural History (UOMNCH) Volunteer
2024	<a href="#"><u>"The impact of undergraduate research opportunities at the regionals - A question-and-answer interview with Ohio State Marion alumna, Madeline Ball"</u></a> , The Ohio State University, Marion, OH.
2024	Community of Scholars Talk: "Sinking my teeth into undergraduate research and digging up opportunities at OSU Marion", The Ohio State University, Marion, OH.