

Zachary M. Burman
PhD student, Biology
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Education

- PhD (in progress) – Biology** **2025 – 2030**
Temple University, Philadelphia, PA, USA
- MS – Geology** **2023 – 2025**
University of Missouri, Columbia, MO, USA
Advisor: Dr. John Warren Huntley
Thesis: Calamari through time: Exploring antagonistic biotic interactions victimizing cephalopods throughout geologic time
- BS – Planetary Sciences** **2016 – 2020**
Purdue University, West Lafayette, IN, USA
Minor – Physics

Research Experience

- Exploring antagonistic biotic interactions victimizing cephalopods throughout geologic time** **2024 – 2025**
University of Missouri
P.I.: Dr. John Warren Huntley
- Generating meteograms and drop size distributions using raindrop disdrometer data** **2019 – 2020**
Purdue University
P.I.: Dr. Daniel T. Dawson II
- Estimating the age of Deimos' surface using crater size-frequency distributions** **2018**
Purdue University
P.I.: Dr. David Minton

Teaching Assistantship

Temple University

Courses: Introduction to Organismal Biology* (BIO 1111), Principles of Ecology (BIO 2227)

University of Missouri*

Courses: Introduction to the Earth with Laboratory (GEOL 1100), Environmental Geology with Laboratory (GEOL 1200), Introduction to Paleontology with Laboratory (GEOL 3550)

Purdue University

Course: The Planets (EAPS 10500)

*Lead instructor in lab sections

Presentations

- Paleo Connected (American Association for Anatomy regional meeting)** **10/2025**
Columbia, MO, USA
Poster Title: A Statistical Overview of Biotic Interactions Victimizing Cephalopods Throughout Deep Time (**Zachary M. Burman**, Kenneth De Baets, John Warren Huntley)
- European Geosciences Union** **04/2025**
Vienna, Austria (virtual presentation)
Poster Title: Biodiversity loss and the simplification of trophic webs: Lessons from cephalopods in deep time (**Zachary M. Burman**, Kenneth De Baets, John Warren Huntley)
- American Association for Anatomy** **03/2025**
Portland, OR, USA

Poster Title: Distinguishing anatomical features from taphonomic artifacts in a Silurian *Dawsonoceras* with computed tomography (**Zachary M. Burman**, John Warren Huntley, Tara Selly, James D. Schiffbauer)

Society for Integrative and Comparative Biology

01/2025

Atlanta, GA, USA

Poster Title: Exploring the relationship between biodiversity and biotic interactions in fossil cephalopods (**Zachary M. Burman**, Kenneth De Baets, John Warren Huntley)

500 Earth Sciences Club

03/2023

Indianapolis, IN, USA

Talk Title: Impact Cratering

Volunteer Work

Indiana State Museum and Historic Sites

2023 – Current

Indianapolis, IN

Projects include:

1. Operating, maintaining, and repairing air abrasion machine used to prepare invertebrate fossils
2. Identifying bones and other organic materials from a modern raptor roost
3. Identifying Mississippian fish teeth and other fossilized anatomical parts