

Curriculum Vitae  
**B. K. Shipps**  
brenleeshipps@isu.edu

## Education

<b>The University of Washington</b> Department of Biology   Sidor Lab   Doctor of Philosophy Student	<b>Seattle, WA</b> <b>2023-</b>
<b>Idaho State University</b> Department of Biological Sciences   Master of Science in Biology	<b>Pocatello, ID</b> <b>2022</b>
<b>George Mason University</b> College of Science   Bachelor of Science in Earth Science with a Concentration in Geology Honors College <i>College of Science   Minor in Paleontology</i> <i>College of Humanities and Social Sciences   Minor in English</i>	<b>Fairfax, VA</b> <b>2017</b>

## Appointments

<b>Biological Sciences Guest Researcher (2022)</b> Idaho Museum of Natural History	<b>Pocatello, ID</b>
<b>Paleomammalogy Guest Researcher (2019-2020)</b> Field Museum	<b>Chicago, IL</b>
<b>Makoshika State Park Paleontology Lab Manager (2018)</b> Montana State Parks	<b>Glendive, MT</b>

## Publications (3)

1. **Shipps, B. K.**, B. R. Peacock, K. D. Angielczyk. 2023. (in press 2022)  
The Topography of Diet: Orientation Patch Count Predicts Diet in Turtles. *The Anatomical Record*.
2. **Shipps, B. K.** 2022.  
The Topography of Diet: Understanding Turtle Triturating Surface Anatomy  
Orientation Patch Count and Comparative Anatomy. M.S., Idaho State University,  
United States -- Idaho, 100 pp.
3. **Shipps, B. K.**, C. M. Peredo, N. D. Pyenson, 2019. \*  
*Borealodon osedax*, a new stem mysticete (Mammalia, Cetacea) from the Oligocene of  
Washington State and its implications for fossil whale-fall communities. *Royal Society  
Open Science* **6**, 182168.

**\*Subject of PBS Eons: How Ancient Whales May Have Changed the Deep Ocean, YouTube, 2021.**

## Conference and Presentation Abstracts (15)

---

15. **Shipps, B. K.**, Peacock, B. R., Angielczyk, K. D., 2022  
No teeth, no problem: Using Orientation Patch Count to predict diet in turtles: in *Society of Vertebrate Paleontology Annual Meeting*, Toronto, Ontario.
14. F.S. Huang, **Shipps, B. K.**, Peacock B. R., 2022  
A method for separating the rhamphotheca from the skull in turtles that keeps both bone and keratin intact: in *Society of Vertebrate Paleontology Annual Meeting*, Toronto, Ontario.
13. **Shipps, B. K.**, Peacock, B. R., Angielczyk, K. D., 2022  
The Topography of Diet: Using molaR to Predict Feeding Habits in Turtles: in *Society for Integrative and Comparative Biology Annual Meeting*, virtual.
12. **Shipps, B. K.**, Peacock, B. R., Angielczyk, K. D., 2021  
The Topography of Diet: Using molaR to predict turtle feeding habits: in *Turtle Evolution Symposium*, virtual.
11. **Shipps, B. K.**, Peacock, B. R., Angielczyk, K. D., 2021  
The Topography of Diet: Using molaR to predict feeding habits in turtles: in *Society of Vertebrate Paleontology Conference*, virtual.
10. **Shipps, B. K.**, Peacock, B. R., Angielczyk, K. D., 2021  
The Topography of Diet: Using molaR to examine the relationship between turtle beak morphology and diet: in *Virtual Evolution Conference 2021*.
9. **Shipps, B. K.**, 2021.  
The Topography of Diet-- Using molaR to predict Testudines feeding habits: in *Graduate Student Research Symposium*, Idaho State University, Pocatello, Idaho.
8. **Shipps, B. K.**, 2019.  
*Maiaasaura*, the State Fossil of Montana: in *National Fossil Day at Lone Pine State Park*, Kalispell, Montana.
7. **Shipps, B. K.**, W. Freimuth, 2019.  
Peculiar Dinosaurs: in *Yellowstone Club OP Kids Dinosaur Night*, Big Sky, Montana.
6. **Shipps, B. K.**, C. M. Peredo, N. D. Pyenson, 2018.  
An unexpected northerner with burrowed bones: a new mammalodontid (mysticeti) from the Pacific Northwest with *Osedax* bores provides insight into Oligocene marine taphonomy and mysticete evolution: in *Society of Vertebrate Paleontology Conference*, Albuquerque, New Mexico.

5. **Shipps, B. K.**, 2018.  
Big concepts, small students: conveying complex paleontological ideas to students ages 4–12: in *Society of Vertebrate Paleontology Conference*, Albuquerque, New Mexico.
4. **Shipps, B. K.**, C. M. Peredo, M. D. Uhen, 2017.  
Analysis of fossil environments reveals biases in the fossil record of mysticete preservation: in *Society of Vertebrate Paleontology Conference*, Calgary, Alberta.
3. **Shipps, B. K.**, 2017.  
The end of the world with *Lystrosaurus*: the story of the end-Permian extinction and how this stocky therapsid managed to survive it: in *GMU Science Slam*, George Mason University, Fairfax, Virginia.
2. **Shipps, B. K.**, M. Uhen, C.M. Peredo, 2016.  
Updating the Paleobiology Database: Where did ancient mysticetes live?: in *College of Science Undergraduate Research Conference*, George Mason University, Fairfax, VA.
1. **Shipps, B.K.**, 2014.  
“There are some things you just don’t do.” The Effects of Actual Violence on a Film’s Morality and Message: in *Honors College Research Conference*, George Mason University, Fairfax, VA.

## Field Work

---

### *Petrified Forest National Park* (Chinle Formation)

215 Ma

Late Triassic

With **The University of Washington**, Summer 2023

Contact: Christian Sidor, casidor@uw.edu

### *Crystal Geyser Quarry* (Cedar Mountain Formation)

129.4 - 125 Ma

Early/Lower Cretaceous

With **North Carolina State University**, Summer 2022

Contact: Lisa Herzog, lisa.herzog@naturalsciences.org

### *American Falls Reservoir* (American Falls Lake Bed E)

0.13 - 0.01 Ma

Pleistocene

With **Idaho Museum of Natural History**, Fall 2021

Contact: Brandon R. Peacock, brandonpeacock@isu.edu

### Geology Field Camp, *multiple formations*, Italy

With **George Mason University**, Summer 2017

---

Contact: Giuseppina Mattiotti, [gkysar@gmu.edu](mailto:gkysar@gmu.edu)

---

## Funding and Awards

2022	SVP Jackson School of Geosciences Student Travel Grant	<b>\$400</b>
2021	ISU Summer Thesis Writing Workshop	<b>\$1500</b>
2018	Montana State Parks AmeriCorps	<b>\$5815</b>
2017	OSCAR Undergraduate Student Travel Fund	<b>\$800</b>
2017	GMU Excellence scholarship	<b>\$4000</b>
2016–2017	GMU Excellence scholarship	<b>\$8000</b>
2017	Learning Assistant–Geology 102	<b>\$1500</b>
2015–2016	GMU Excellence scholarship	<b>\$8000</b>
2016	Learning Assistant–Geology 101	<b>\$1500</b>
2016	OSCAR Undergraduate Research Scholars Program	<b>\$1000</b>
2015	Learning Assistant–Geology 101	<b>\$1500</b>
2014	Patricia A. Hoyt Scholarship	<b>\$1000</b>
2014	Inducted into George Mason Honors College	
2014	English Achievement Award	
2013	Rotary Youth Leadership Award	

## Teaching

2023	Teaching Assistant: Biol 180 – Introductory Biology	The University of Washington (Seattle, WA)
2021	Teaching Assistant: Biol 2227L – Intro Human Anatomy and Physiology Lab	Idaho State University (Pocatello, ID)
2020	Teaching Assistant: Biol 3301 – Advanced Human Anatomy and Physiology Lab	Idaho State University (Pocatello, ID)
2017	Learning Assistant: Geology 102 – Historical Geology	George Mason University (Fairfax, VA)
2016	Learning Assistant: Geology 101 – Physical Geology	George Mason University (Fairfax, VA)
2016, 2017	Youth Educational Program Instructor	Friends of the Middlesex Fells (Melrose, MA)
2015	Learning Assistant: Geology 101 – Physical Geology	George Mason University (Fairfax, VA)

## Teaching – Guest Lectures

2021	<i>Turtle Phylogeny and Evolution</i>	BIOL 4417: Organic Evolution Idaho State University (Pocatello, ID)
2021	<i>Research and Proposal Overview</i>	BIOL 3314: Comparative Vertebrate Anatomy Idaho State University (Pocatello, ID)
2020	<i>A Circuitous Route to Dicynodonts: How and why I am a grad student here at ISU</i>	BIOL 5527: Ichthyology Idaho State University (Pocatello, ID)

## Outreach

2023	REI Co-Op Class Facilitator	REI Co-Op (Cary, NC)
2021	Fall Fossil Fest Presenter	Idaho Museum of Natural History (Pocatello, ID)
2021	Field Trip Volunteer Presenter	Idaho Museum of Natural History (Pocatello, ID)
2020	Dozin' with the Dinos Presenter	Field Museum (Chicago, IL)
2015-2017	Peer Health Educator	Student Support & Advocacy Center (Fairfax, VA)
2015	Summer Interpretive Intern	MA Dept. of Conservation & Recreation (Melrose, MA)

## Service

2022	Exhibits Volunteer - Paleontology	North Carolina Museum of Natural Sciences (Raleigh, NC)
2020	Paleontology Collections Intern	Idaho Museum of Natural History (Pocatello, ID)
2018	Montana State Parks AmeriCorps	Montana Fish, Wildlife, and Parks (Glendive, MT)
2017	National Museum of Natural History Intern	Smithsonian Institute (Washington, DC)
2017	OSCAR Fellow	George Mason OSCAR (Fairfax, VA)
2017	Alternative Spring Break Coordinator	Social Action & Integrative Learning Office (Fairfax, VA)
2016	Alternative Spring Break Participant	Social Action & Integrative Learning Office (Fairfax, VA)
2015	Summer Interpretive Intern	MA Dept. of Conservation & Recreation (Melrose, MA)

## Other Employment

---

2022-	REI Sales Specialist (Cary, NC and Bellevue, WA) Help REI customers identify the best outdoor/camping equipment and footwear for a wide range of activities, stock shelves, merchandise displays, and increase Co-Op membership
2020-2022	ACE Hardware and Element Outfitters Sales Associate (Pocatello, ID) Managed visuals for shoes, apparel, and sporting goods including creating appealing product displays, as well as selling Idaho Fish and Game licenses and permits and providing general customer service
2020	REI Sales Specialist (Chicago, IL) Helped REI customers identify the best outdoor/camping equipment for a wide range of activities and worked to create an ideal customer experience by merchandising and properly displaying product
2019	Brush Lake State Park Ranger (Dagmar, MT) Managed campground and park operations as well as all interpretive programming at Brush Lake State Park
2017	Skyward English Tutor (Fairfax, VA) Taught basic English lessons to students aged 6-8 in China via Zoom software
2016-2017	Desk Assistant: George Mason University Housing (Fairfax, VA) Managed everyday housing situations and acted as liaison between student residents and housing office

---

## References

---

Dr. Brandon Peecook	Assistant Curator, Idaho Museum of Natural History brandonpeecook@isu.edu   208.282.2749   Pocatello, ID
Dr. Kenneth Angielczyk	Associate Curator of Paleomammalogy, Field Museum kangielczyk@fieldmuseum.org   312.665.7639   Chicago, IL
Dr. Nicholas Pyenson	Curator of Fossil Marine Mammals, National Museum of Natural History pyensonn@si.edu   Washington, DC
Dr. Carlos Peredo	Assistant Professor, Miami University peredocm@miamioh.edu   Oxford, OH

---