

Madeline S. Marshall, Ph.D.

STRATIGRAPHER | SEDIMENTOLOGIST | PALEONTOLOGIST | EDUCATOR
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EDUCATION

Ph.D. The University of Chicago, Chicago, IL 2018
Department of the Geophysical Sciences, Advisor: Susan M. Kidwell
Thesis: *Sequence stratigraphy and taphonomic expression of hiatuses in a highly condensed, organic- and phosphate-rich record: Paleoenvironmental analysis and paleoecology of the Permian Phosphoria Rock Complex, southeastern Idaho*
• College Teaching Certificate, Chicago Center for Teaching 2018
• Wasatch-Uinta Field Camp, Park City, Utah 2013

B.A. Macalester College, St. Paul, MN 2012
Geology Department, *Summa cum Laude*, Advisor: Raymond R. Rogers

ACADEMIC POSITIONS AND AFFILIATIONS

Assistant Professor 2019-present
Department of Earth & Environment (Geological Sciences), Albion College
Visiting Anderson Natural Science Lecturer and Assistant Professor, 2018-2019
Geology Department, Cornell College
Research Associate, Department of Earth Sciences, Denver Museum of Nature and Science 2016-present

TEACHING EXPERIENCE

Albion College, Assistant Professor
Invertebrate Paleontology GEOL 209 (undergraduate lab course) Spring 2020 & 2022
Introduction to Earth History GEOL 103 (undergraduate lab course, 6 semesters) Fall 2019-Spring 2023
Oceans, Atmosphere, and Climate GEOL 115 (undergraduate environmental course) F. 2021 & Sp. 2022
Sedimentation and Stratigraphy GEOL 205 (undergraduate lab course) Fall 2019, 2020, 2022
Life and Chemical Sediments GEOL 389 (undergraduate lab course) Spring 2021
Life and Chemical Sediments GEOL 389 (undergraduate lab course) Spring 2021
Introduction to Geology GEOL 101 (undergraduate lab instructor) Fall 2021, 2022
Regional Field Geology GEOL 210: Midwest Paleozoic (undergraduate field course) Spring 2022
Geology Field Camp (assisted teaching undergraduate field course) Summer 2019

Cornell College, Visiting Assistant Professor and Anderson Lecturer
Marine Science GEO 105 (undergraduate course) Fall 2018 & Spring 2019
Invertebrate Paleontology GEO 217 (undergraduate course) Fall 2018
Paleoecology GEO 317 (undergraduate course) Fall 2018
Historical Geology GEO 130 (undergraduate course) Spring 2019
Sedimentology & Stratigraphy GEO 324 (undergraduate course) Spring 2019

The University of Chicago, Graduate TA
Field Course in Geology 29001 (undergraduate-graduate course) Fall 2017
Environmental History of the Earth 11000 (undergraduate course) Spring 2017
Biological Evolution 13900 (undergraduate course) Winter 2017 & 2018
Principles of Stratigraphy 28300 (undergraduate-graduate course) Fall 2014 & 2016
Environmental History of the Earth 11000 (undergraduate course) Spring 2013
Natural Hazards 13600 (undergraduate course) Winter 2013

PUBLICATIONS

Marshall MS, Higley MC (2021) Multi-scale virtual field experience: sedimentology and stratigraphy of Grand Ledge, Michigan, USA. *Geoscience Communication*, 4(4): 461-474.

Marshall MS, Rogers RR (2012) Lungfish burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar. *Palaios* 27:857–866.

Rogers RR, Krause DW, Kast SC, **Marshall MS**, Rahantarisoa L, Robins CR, Sertich JJW (2013) A new, richly fossiliferous member comprised of tidal deposits in the Upper Cretaceous Maevarano Formation, northwestern Madagascar. *Cretaceous Research* 44:12–29.

VIRTUAL RESOURCES PUBLISHED

- Multi-Scale Sed/Strat Virtual Field Experience: grandledge.weebly.com (a version is also published at: https://serc.carleton.edu/NAGTWorkshops/online_field/activities/242310.html)

PUBLICATIONS IN PREPARATION

Marshall MS, Paleobiological implications of skeletal concentrations in organic-rich records: Hiatal duration and paleo-oxygenation in the Permian Phosphoria Rock Complex (*dissertation chapter and continued research at Albion, in preparation, planned submission to Palaios*).

Marshall MS, Bergeron LD*, Sertich JJW, Stratigraphy and sedimentology of a complex shallow marine dinosaur-bearing succession from the Late Cretaceous of the Morondava Basin, Western Madagascar (*in preparation, planned submission to Sedimentology*).

Marshall MS, Sequence stratigraphic insights into paleoenvironments of a condensed record in an epicontinental sea: Permian Phosphoria Formation, southeastern Idaho (*dissertation chapter and continued research at Albion, in preparation, planned submission to Journal of Sedimentary Research*).

Marshall MS, Bergeron LD*, Sertich JJW, Miller IM, Andrianarivo MH, Paleontology and taphonomic history of a complex nearshore dinosaur-bearing succession during the early isolation of the Cretaceous Morondava Basin, Western Madagascar (*in preparation, planned submission to Journal of African Earth Sciences*).

Andrianarivo MH, Rasoamiamanana A, Ranivoharimanana L, **Marshall MS**, Randrianaly H (*submitted*). Les Brachiopodes de secteur de la Manera SW du bassin de Morondava, Madagascar.

Marshall MS, Evidence and characteristics of hiatal surfaces in nutrient-rich records: Phosphatic and glauconitic microfacies of the Permian Phosphoria Rock Complex (*in preparation, planned submission to Sedimentology*).

Marshall MS, Andrianarivo MH, Stratigraphy and taphonomy of a shallow marine shell-rich sequence, upper Jurassic, southern Morondava Basin, Western Madagascar (*in preparation, planned submission to Palaios*).

ABSTRACTS OF CONFERENCE PRESENTATIONS

Marshall MS, *Bergeron LD, *Jatta M (2022) Paleoenvironmental implications of glaucony facies: A case study in the Lower Paleozoic of the Midwest, USA. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-38092581069

*Bergeron LD, **Marshall MS**, Thole JT (2022) Green key to the past: A comparative study of the paleoenvironmental implications of optical vs. chemical properties of glauconite. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-383723

*Jonkman H, Andrianarivo MH, *Bergeron LD, *Jatta M, **Marshall MS** (2022) Stratigraphy of shell beds from high-sediment, high-productivity deposits of the Late Jurassic Ilona River, Morondava Basin,

Western Madagascar. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-3

- Marshall MS**, Warme JE (2022) Incised valley depositional sequence and root traces of the Late Devonian (Frasnian) Temple Butte Formation in Marble Canyon, Eastern Grand Canyon. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-379532
- *Bergeron LD, **Marshall MS**, Lau K (2022) Stratigraphic insights from Permian shell beds: Comparison of Franson Member deposits of the Permian Phosphoria Rock Complex, Idaho. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-381333
- *Zink S, **Marshall MS** (2022) Glass ramps and ceramic sponges: Sculpturally reconstructing taphonomic patterns of Permian demosponges in the Phosphoria Rock Complex, Idaho. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-378057
- Bowman C, **Marshall MS**, Garber JM, Owens J, Young S, Soares GG, Lau K (2022) Insights into phosphogenesis from a multi-proxy paleo-redox reconstruction of the Permian Phosphoria Basin, Idaho, USA. Geological Society of America *Abstracts with Programs*, Vol 54, No. 5, doi: 10.1130/abs/2022AM-381810
- Bowman C, **Marshall MS**, Owens JD, Young SA, Lau, KV (2021) Paleo-redox conditions of the eastern margin of the Permian Phosphoria Basin, Idaho, USA (PP21B-03). America Geophysical Union Fall Meeting, 13-17 Dec.
- Marshall MS**, *Bergeron LD, *Jatta M (2021) Comparison of glauconitic units of the northern and southern Morondava Basin, Cretaceous of Western Madagascar. Geological Society of America *Abstracts with Programs*, Vol 53, No. 6, doi: 10.1130/abs/2021AM-364384.
- *Bergeron LD, **Marshall MS** (2021) A complex marine succession revealed by authigenic minerals and microfossils in dinosaur-bearing deposits of the Late Cretaceous of the Morondava Basin, Madagascar. Geological Society of America *Abstracts with Programs*, Vol 53, No. 6, doi: 10.1130/abs/2021AM-364396.
- *Rodarte DE, **Marshall MS** (2021) Comparative analysis of phosphorite hardgrounds from the Recent of the California Borderlands and the Permian Phosphoria Rock Complex of Idaho. Geological Society of America *Abstracts with Programs*, Vol 53, No. 6, doi: 10.1130/abs/2021AM-364563.
- Marshall MS**, Sharp ND, Warme, JE (2020) Terrestrial paleoenvironments and transgressive history of the Devonian Temple Butte Formation in eastern Grand Canyon. International Sedimentary Geosciences Congress (ISGC), Abstract #298.
- Marshall MS** (2018) Hiatal association of skeletal concentrations in high-productivity records: Paleocological implications for the Phosphoria Rock Complex. Geological Society of America *Abstracts with Programs*, Vol. 50, No. 6, doi: 10.1130/abs/2018AM-320471.
- Marshall MS** (2017) Paleocological and physical evidence of a complex mosaic of oxygen conditions in the Phosphoria Sea, Permian of southeastern Idaho. Geological Society of America *Abstracts with Programs*, Vol. 49, No. 6, doi: 10.1130/abs/2017AM-304932.
- Marshall MS** (2016) Paleobiological implications of skeletal concentrations in organic-rich records: Taphonomy of shell- and fish-rich intervals of the Permian Phosphoria Formation. Geological Society of America *Abstracts with Programs*, Vol. 48, No. 7, doi: 10.1130/abs/2016AM-285858.
- Marshall MS**, *DeCorte I (2015) Hiatal surfaces within the phosphorite, organic-rich, and chert facies of the Permian Phosphoria Formation, southeastern Idaho. Geological Society of America *Abstracts with Programs*, Vol. 47, No. 7, p. 830.
- Marshall MS**, Sertich JJW, Miller IM, Andrianarivo MH (2015) Stratigraphy and paleontology of a new nearshore dinosaur-bearing succession from the Late Cretaceous of the Morondava Basin, Western Madagascar. Geological Society of America *Abstracts with Programs*, Vol. 47, No. 7, p. 566.
- Marshall MS** (2014) Variation in macrofossil abundance and preservation under upwelling conditions: A case study in the Permian Phosphoria Formation. Geological Society of America *Abstracts with Programs*, Vol. 46, No. 6, p. 540.
- Rogers RR, Carrano MT, Curry Rogers K, Faulkner B, Lawrence A, **Marshall MS**, Perez M (2012) Taphonomy of vertebrate microfossil bonebeds in the Upper Cretaceous (Campanian) Judith River

Formation of Central Montana. Geological Society of America *Abstracts with Programs*, Vol. 44, No. 7, p. 397.

Marshall MS, Rogers RR (2011) Exceptional record of lungfish burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar. Geological Society of America *Abstracts with Programs*, Vol. 43, No. 5, p. 310.

(*indicates undergraduate co-author)

RESEARCH & FIELDWORK ADVISING

Albion College undergraduate research students:

- Sam Zink '23 (spring 2022-present, 2 directed studies; Spring 2022 FURSCA; co-advised by Shauna Merriman, ceramics): *Exploring gregarious Permian sponge morphologies and composition through multiple media, Phosphoria Rock Complex, Idaho*
- Hayley Jonkman '23 (spring 2021-present, 2 directed studies; Spring 2022 FURSCA): *Stratigraphic analysis of oyster reefs and authigenic minerals of the Late Jurassic Ilona River, Madagascar*
- Adia Langeland '23 (fall 2022-present, 2 directed studies; Fall 2022 FURSCA): *Regional comparative analysis of an exceptional bioclastic phosphorite unit ("fish scale marker bed") across the Permian Phosphoria Basin, Idaho*
- Lauren Bergeron '22 (2020-2022, 4 directed studies; summer 2021 FURSCA): Thesis: *Sedimentology of the Cretaceous Morondava Basin, Madagascar*
- Moses Jatta '22 (2021-2022; summer 2021 FURSCA): Thesis: *French translation and Stratigraphic correlation of outcrops in the Cretaceous Morondava Basin, Madagascar*
- Dorothy Rodarte '21 (spring 2021 FURSCA and directed study): *Comparative analysis of Phosphorite Hardgrounds from the Permian Phosphoria Rock Complex of Idaho and Recent of the California Borderlands*
- Willow Montague '22 (fall 2021 directed study): *Identification and description of invertebrate fossils from the Permian Phosphoria Rock Complex, Idaho*

Albion College undergraduate thesis committee member (non-advisee):

- Emily Gerlach (2021-2022, International Studies and Environmental Biology), Honors Thesis committee member: *Climate change and global conflict.*
- Alexis Wilkerson (2020-2021, Biology), Honors Thesis committee member: *Seasonal comparison of bacterial occurrences and their hydrolytic enzymatic activities among different soil types using combinations of standard microbiology and molecular approaches.*

Albion College Academic Advisees:

- Advised and mentored 11 undergraduate students in 2020-21, 9 in 2021-22, 8 in 2022-23

Cornell College undergraduate research students:

- Matt Stivland (2018-2019), mentored research on *Spiculite microfacies, Permian PRC*
- Kira Fish (2018-2019), Thesis committee member: *Boron isotope record in corals*

Macalester College undergraduate research students:

- Ted Toegel (2016-2017), *Sedimentology of phosphate nodules in the Permian Phosphoria Formation*
- Mentored Field Assistants: Ilian DeCorte (2015, 10 weeks); Margo Yaravitz (2014, 3 weeks)

RESEARCH AWARDS & GRANTS

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|--|--------|
| • Blanchard Faculty Fellowship, Albion College (2022) | \$5000 |
| • Faculty Development Committee Summer Research Grant, Albion College (2022) | \$5500 |
| • Norman Newell Early Career Research Grant, Paleontological Society (2021) | \$5000 |
| • Faculty Development Committee Summer Research Grant, Albion College (2021) | \$5500 |

- American Chemical Society - Petroleum Research Fund Grant for *Redox controls on organic carbon accumulation and sedimentary phosphorus cycling in highly productive environments*, PI Kim Lau (collaborator, 2021)
- Faculty Development Committee Summer Research Grant, Albion College (2020) \$5500
- Lewis & Clark Fund for Exploration & Field Research, American Philosophical Society (2016) \$3900
- SEPM (Society for Sedimentary Geology) Student Research Grant (2016) \$1500
- National Science Foundation Graduate Research Fellowship (2013-2016) \$132,000
- Geological Society of America Student Research Grant (2015) \$1232
- National Geographic Society Committee for Research & Exploration Grant #9527-14 \$26,000
(co-investigator on grant authored by Dr. Joseph Sertich, “Evolution in Isolation: Fossils from the Cretaceous of the Morondava Basin, southwestern Madagascar,” 2014-2015)
- G. Arthur Cooper Award, Paleontological Society research grant (2014) \$800
- Donald & Mary O’Nesky research grant, American Association of Petroleum Geologists (2014) \$1500
- Theodore Roosevelt Memorial Research Grant, American Museum of Natural History (2014) \$1500
- International Association of Sedimentologists post-graduate research grant (2014) €1000
- McCormick Fellowship at The University of Chicago (2012-2014) \$8000
- Barry M. Goldwater Scholar (2011-2012) \$7500
- Minnesota Space Grant NASA Summer Research Award (Macalester College, 2011-2012)
- Henry Lepp Award for academic excellence in geology (Macalester College, 2012)
- Student Faculty Summer Research Collaboration Award (Macalester College, 2010)
- DeWitt Wallace Distinguished Scholarship (Macalester College, 2008-2012)
- National Merit Scholar Finalist Award (Mead Witter Foundation, 2008-2012) \$10,000

FIELD EXPERIENCE

- Glauconite in context: comparative analysis of optical vs. chemical properties, stratigraphic context, 2022 and paleoenvironments of glauconitic minerals in the Paleozoic of the Midwest (2 weeks)
- Comparison of the paleoecology and sedimentology of nutrient-rich vs. nutrient-poor environments, Permian of southern Idaho; 3 weeks (collaborative with Dr. Kim Lau, Penn State) 2021
- Stratigraphy and paleoenvironments of the Devonian Temple Butte Formation, and Grand Canyon Geology (trip led by Dr. John Warme and Lew Kleinhans); 2 weeks. 2013, 2019
- Sequence stratigraphy, facies analysis, and macrofossil preservation in the Permian Phosphoria & Park City Formations, Caribou-Targhee National Forest, southeast Idaho, and Beaverhead National Forest, southwest Montana; 20 weeks fieldwork. 2014-2016
- Basin-wide stratigraphy, vertebrate paleontology, and paleobotany of the Campanian Kaiparowits Formation, Grand Staircase-Escalante National Monument, southern Utah (Led by Dr. Joseph Sertich and Dr. Ian Miller, Denver Museum of Nature & Science); stratigraphy co-investigator, 3 weeks fieldwork. 2015
- Evolution in Isolation: Paleontology & Stratigraphy of the Cretaceous of the Morondava Basin, southwestern Madagascar (Led by Dr. Joseph Sertich and Dr. Ian Miller, DMNS); geology co-investigator, 9 weeks fieldwork. 2012 & 2015
- Stratigraphy & paleontology of the Mahajanga Basin, northwestern Madagascar (Led by Dr. David Krause (SUNY-Stony Brook), Dr. Raymond Rogers (Macalester College), and Dr. Joseph Sertich (DMNS); student researcher, 9 weeks fieldwork. 2010 & 2012
- Taphonomy and paleontology of vertebrate microfossil bonebeds in the Judith River Formation, north-central Montana (Led by Dr. Raymond Rogers and Dr. Kristi Curry Rogers, Macalester College); student researcher, 3 weeks fieldwork. 2011
- Sedimentology & stratigraphy of Ashfall Fossil Beds, Nebraska (Led by Dr. Raymond Rogers, Macalester College); field assistant, 1 week fieldwork. 2009

PROFESSIONAL DEVELOPMENT COURSES

- Speaking Up Bias Training (PowerPlay Interactive Development, U of New Hampshire, virtual) 2022

- Field Safety Leadership Workshop (led by Dr. Kurt Burmeister) 2021
- Centering Diversity, Inclusion, and Equity in Undergraduate Research & Creative Activity Conference (Council on Undergraduate Research) 2021
- Workshop for Early Career Geoscience Faculty (NAGT and NSF) 2020
- Anti-Racism Primer short course (Truth & Titus Collective) 2020
- Pedagogy and Technology in the Modern Paleontology Classroom (Paleontological Society, GSA) 2018
- Pedagogy and Technology in the Modern Paleontology Classroom (Paleontological Society, GSA) 2018
- Course Design and College Teaching (spring quarter course, Chicago Center for Teaching) 2017
- Teaching “Difference” inclusive pedagogy workshop (Chicago Center for Teaching) 2017
- Improv for Science Communication Workshop (UChicago Physical Sciences & Second City) 2017
- Seminar and Workshop on Course Design (Chicago Center for Teaching) 2016

SCIENTIFIC SHORT COURSES

- StraboSed Virtual Workshop, digital field notebook and data management system for sedimentological data and stratigraphic sections. (NSF-EarthCube) 2020
- Taphonomy, online graduate course (Taught by Dr. Susan Kidwell, University of Chicago) 2020
- Structural and Stratigraphic Concepts Applied to Basin Exploration. ExxonMobil short course. 2017
- The Permian-Triassic transition in Colorado. GSA. (Led by Dr. James Hagadorn, DMNS) 2016
- Miocene Stratigraphy and Paleoenvironments of the Calvert Cliffs, Maryland. GSA. (Led by Dr. Susan Kidwell and Dr. Lucy Edwards, USGS) 2015
- Stratigraphy and Paleontology of the Fish Creek, Vallecito, and Coyote Mountains, Salton Trough, California (Led by Dr. Susan Kidwell, University of Chicago) 2015
- Siliciclastic Core-Logging and Ichnology for Graduate Students. GSA short course. 2014
- Geology of Death Valley and the Sierra Nevada Mountains (led by Dr. David Rowley & Dr. Mark Webster, University of Chicago) 2014
- Sequence Stratigraphy for Graduate Students. GSA short course. 2013
- Modern and Ancient Carbonate Environments, San Salvador, The Bahamas (Led by Dr. Susan Kidwell and Dr. Michael LaBarbera, University of Chicago) 2013

TECHNICAL SKILLS

- Imaging and Analysis: Petrographic microscopy, PETROG (point counting), SEM, Micro-XRF, XRD, thin section preparation, basic experience in phosphate and carbonate $\delta^{18}\text{O}$ isotopic analyses
- Data Analysis and Computation: Agisoft Metashape, R, ArcGIS, Adobe Illustrator, Adobe Photoshop
- Sedimentology & Stratigraphy: measuring stratigraphic sections, rock description in the field and lab
- Field Geology: field mapping, field logistics, vertebrate fossil quarrying (mapping, excavation, jacketing)

INVITED TALKS

Albion College - Faculty Lecture

- Keys to the Past: Reconstructing Earth’s ancient environments (Jan. 2023)

University of Missouri

- Tales of two shell beds: The role of sedimentation regime in the preservation of high-productivity skeletal concentrations (Feb. 2022)

Rocky Mountain Section-SEPM

- Tales of two shell beds: The role of sedimentation regime in the preservation of high-productivity skeletal concentrations (Jan. 2022)

South Dakota School of Mines and Technology

- Tales of two shell beds: The role of sedimentation regime in the preservation of high-productivity skeletal concentrations (Nov. 2021)

Denver Museum of Nature & Science

- Paleoecology, taphonomy, and paleoenvironments of the Permian Phosphoria Rock Complex (Feb. 2020)
- Texas A&M University
- Hiatuses and Shell Beds: Windows into the paleoecology of high-productivity environments (April 2019)
- Kent State University
- Hiatuses and Shell Beds: Windows into the paleoecology of high-productivity environments (2019)
- Georgia Southern University
- Hiatuses and bioelemental sediments as windows into the paleoecology of high-productivity environments (2019)
- SUNY-Fredonia
- Hiatuses and Shell Beds: Windows into the paleoecology of high-productivity environments (2019)
- California Lutheran University
- Hiatuses and Shell Beds: Windows into the paleoecology of high-productivity environments (2019)
- Albion College
- Hiatuses and bioelemental sediments as windows into the paleoecology of high-productivity environments (2019)
- Cornell College
- Piecing Together the Past: Reconstructing ancient environments when dinosaurs roamed western Madagascar — Anderson Natural Science Lecture (2019)
 - Bioelemental Sediments: Paleoenvironmental inference in the nutrient-rich Permian Phosphoria Formation (2018)
- The University of Chicago Dept. of Geophysical Sciences annual research Expo
- A closer look at the hiatal surfaces of the Permian Phosphoria Formation, southeastern Idaho (2016)
 - Lungfish burrows from the Upper Cretaceous Maevarano Formation, Mahajanga Basin, Northwestern Madagascar (2013)
- The University of Chicago Dept. of Geophysical Sciences graduate seminar series
- Paleobiological implications of skeletal concentrations in organic-rich records: Taphonomy of shell- and fish-rich intervals of the Permian Phosphoria Formation (2016)
 - Stratigraphic paleobiology and taphonomy in the Permian sea of southeast Idaho (2015)
- The University of Chicago GeoUnion undergraduate seminar series
- Geology and Paleontology in the Field (2015)
- Macalester College Geology Department
- Bioelemental Sediments & The Phosphoria Formation (2016, undergraduate Sedimentology/Stratigraphy class)
 - The Phosphoria Formation: Deposition and paleobiology (2014, undergraduate Paleobiology class)
 - guest presentations on geology graduate school and research (2015-2017, Senior Seminar course)

COLLEGE AND PROFESSIONAL SERVICE

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|---|--------------|
| • Paleontological Society Communications Officer (Elected to PS Council) | 2021-2025 |
| • North American Paleontological Congress organizing committee member | 2022-2024 |
| • Earth Science Women's Network invited panelist | 2022 |
| • <i>Academic Applications for Faculty Positions in the US</i> virtual event | |
| • Paleontological Society GSA student poster judge | 2021-2022 |
| • <i>The Sedimentary Record</i> Reviewer | 2021 |
| • Albion College Environmental Club advisor | 2021-present |
| • Goldwater Scholars Campus Representative, Albion College | 2022-present |
| • Albion College FURSCA Advisory Committee Member (Foundation for Undergraduate Research, Scholarship, and Creative Activity) | 2020-present |
| • Albion College Hearing & Grievance Committee Member (elected) | 2021-present |
| • Mentor, Goldwater Scholars Community | 2021-present |

- Albion College Earth & Environment Department Colloquium Subcommittee Chair 2021-2022
- Albion College Diversity Task Force 2020-2021
- Albion College Assistant Faculty Parliamentarian 2020-present
- Albion College Geology Department Hydrogeology Search Committee 2019-2020
- Albion College Geology Club co-advisor 2019-2021
- Invited panelist for UChicagoGRAD, The University of Chicago 2020-2021
 - Considering Lecturer, Visiting, and Adjunct Positions (Academic Job Market Summer Camp);
First Years as Faculty in STEM (GRADUCon); Mental Health in Grad School (PSD)
- American Chemical Society Petroleum Research Fund Reviewer 2020
- Member of Selection Committee for the AGI's Harriet Evelyn Wallace Scholarship 2018-2019
- *Palaio*s Reviewer 2016-2018
- Graduate student seminar series chair, Dept. of Geophysical Sciences, UChicago 2014-2015
- Co-chair of Actualistic Taphonomy symposium, NAPC (Gainesville, FL) 2014

PUBLIC OUTREACH

- South Side Science Festival (scientific demonstration volunteer) at The University of Chicago 2022
- March for Science Chicago Expo exhibitor and representative for The Paleontological Society 2017
- University of Chicago Paleobiology digital outreach ("Ask a Paleontologist" project, addressing geology & paleontology questions from local kindergarten students via Skype presentations and online exchanges) 2013-2016
- Denver Paleontology digital media contributor (blogging, photos, & video science communications to the public from Madagascar & southern Utah during fieldwork) 2015
- Outreach volunteer at the Field Museum of Natural History 2013

PROFESSIONAL AFFILIATIONS

- Geological Society of America (since 2010)
- Society of Sedimentary Geology (SEPM) (since 2010)
 - SEPM Rocky Mountain Section (since 2022)
- American Association of Petroleum Geologists (since 2012)
- International Association of Sedimentologists (since 2013)
- The Paleontological Society (since 2013)