



DR. BRITTANY N. HUPP

Assistant Professor
Department of Atmospheric, Oceanic and Earth Sciences
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EDUCATION

- 2021 **Ph.D. in Geosciences**, Department of Geosciences, University of Wisconsin-Madison
Dissertation: Deconvolving Climate and Biotic Signals from Taphonomic Overprints in Deep-Sea Records of the Paleocene-Eocene Thermal Maximum
Advisor: Dr. D. Clay Kelly
- 2017 **M.Sc. in Geology**, Department of Geology & Geography, West Virginia University
Thesis: Provenance of the Hamilton Group: A study of source-to-sink relationships within the Middle Devonian central Appalachian Basin
Advisor: Dr. Amy Weislogel
- 2015 **B.A. in Professional Geology**, Department of Geology & Geography, Ohio Wesleyan University
Minors: Classics, Humanities
Graduated Cum Laude and with Honors in Professional Geology
Undergraduate Honors Thesis: High Resolution Conodont Biostratigraphy of the Dundee Limestone, Michigan Basin
Advisor: Dr. Keith Mann

PROFESSIONAL POSITIONS

- 2022 - present **Assistant Professor**
Department of Atmospheric, Oceanic and Earth Sciences
George Mason University, Fairfax, Virginia
- 2021 - 2023 **National Oceanic and Atmospheric Administration Climate & Global Change Postdoctoral Fellow**
College of Earth, Ocean, and Atmospheric Sciences
Oregon State University, Corvallis, Oregon
- 2020-2021 **Adjunct Instructor**
Department of Geology
Edgewood College, Madison, Wisconsin
- 2019-2021 **Head Graduate Teaching Assistant**
Department of Geoscience
University of Wisconsin-Madison, Madison, Wisconsin
- 2017-2019 **Graduate Teaching Assistant**
Department of Geosciences
University of Wisconsin-Madison, Madison, Wisconsin

- 2015-2017 **Graduate Teaching Assistant**
 Department of Geology & Geography
 West Virginia University, Morgantown, West Virginia
- Summer 2016 **Graduate Research Assistant**
 Marcellus Shale Energy and Environment Laboratory
 West Virginia University, Morgantown, West Virginia
- 2013-2015 **Intern**
 Division of Oil & Gas Resources
 Ohio Department of Natural Resources, Columbus, Ohio
- 2012-2013 **Collections Maintenance Worker**
 Department of Geology & Geography
 Ohio Wesleyan University, Delaware, Ohio

PUBLICATIONS

*denotes student mentee

16. *Burgess, A., **Hupp, B.N.**, and Nelson, T.R., *accepted*, Spatiotemporal Variations of Dissolved Major and Trace Elements in the Potomac River and Chesapeake Bay Estuary; submitted to *Estuaries and Coasts*.
15. Villa, A., **Hupp, B.N.**, Roberts, N.M., Callahan, E., Krishnana, A., Parrish, E., and Honig, S., 2026, Building Community: A sustainable framework for DEI working groups in geoscience departments: *Earth Science, Systems and Society*, v. 6, <https://doi.org/10.1144/esss2024-011>
14. **Hupp, B.N.**, and Fehrenbacher, J.S., 2025, Impact of preservative medium and oxidative cleaning on the trace element geochemistry and stable isotope composition of modern foraminifera: *Paleoceanography and Paleoclimatology*, v. 40, e2025PA005137. <https://doi.org/10.1029/2025PA005137>
13. **Hupp, B.N.**, Hashim, M.S., Bryant, R., Kinsley, C.W., Villa, A., Nana Yobo, L., Ajayi, J.O., and the Participants of the Establishing Early-Career Scientific Ocean Drilling Learning Communities Workshop, 2025, Perspectives on Developing a Diverse, Knowledgeable, and Inclusive Scientific Community in the Shifting Landscape of U.S. Scientific Ocean Drilling: *Earth Science, Systems and Society*, v. 5, <https://doi.org/10.1144/esss2024-002>
12. FUTURE 2024 PI-team, Applegate, B., Dugan, B., Eguchi, N., Fornari, D., Freudenthal, T., Fulton, P., Kelley, S., Lang, S.Q., Manalang, D., Mix, A., Trask, R., Andrys, J., Beethe, S., Bridgham, H., Cabaniss, H., Cargill, S.K., Conroy, C.W., Costa, K., Cox, A., Cross, A., Dwyer, D., Dodd, J., Donnelly, J., Finlayson, V., Hashim, M., Heaton, D., Huber, J., **Hupp, B.**, Jackson, M.G., Jasper, C., Kitajima, H., Libman-Roshal, O., Lowery, C.M., Maletic, E., Marranzino, A.N., Mejía-Mercado, B.E., Morrow, T., Nana Yobo, L., Pallone, C., Panter, K., Patterson, M., Peccia, A., Ronge, T.A., Roth, E., Staro, A., Stelling, K., Todes, J.P., Tsang, M., Wieman, S.T., Konrad, K., Reilly, B., Schrenk, M., Walczak, M., and Tominaga, M., 2025, The FUTURE of the US marine seafloor & subseafloor sampling capabilities: *AGU Advances*, v. 6, e2024AV001560. <https://doi.org/10.1029/2024AV001560>
11. Pacific Highs Working Group, Griffith, E.M., & Westerhold, T. (2025). Pacific Highs: A treasure trove of past warm climate archives: *Paleoceanography and Paleoclimatology*, v. 40, e2025PA005133. <https://doi.org/10.1029/2025PA005133>

10. **Hupp, B.N.**, and Fehrenbacher, J.S., 2024, Intrashell trace element variability in polar and subpolar planktic foraminifera: Insights into vital effects, ontogeny, and biomineralization processes: *Journal of Foraminiferal Research*, v.54, 355-374. <https://doi.org/10.61551/gsjfr.54.4.355>
9. Fehrenbacher, J.S., **Hupp, B.N.**, Branson, O., Evans, D., Foster, G., Glock, N., Thirumalai, K., and Wycech, J., 2024, Individual foraminifera analyses: A Review of current and emerging geochemical techniques: *Journal of Foraminiferal Research*, v.54, p.312-331, <https://doi.org/10.61551/gsjfr.54.4.312>
8. **Hupp, B.N.**, and Fehrenbacher, J.S., 2023, Geochemical differences between alive, uncrusted and dead, crusted shells of *Neoglobobquadrina pachyderma*: Implications for paleoreconstruction: *Paleoceanography and Paleoclimatology*, v. 28, e2023PA004638. <https://doi.org/10.1029/2023PA004638>
7. **Hupp, B.N.**, Kozdon, R., Orland, I., Valley, J., and Kelly, D.C., 2023, Secondary controls on the stratigraphic signature of the carbon isotope excursion marking the Paleocene-Eocene thermal maximum at Ocean Drilling Program Site 1135: *Chemical Geology*, v. 632, 121534, <https://doi.org/10.1016/j.chemgeo.2023.121534>
6. Judd, E., Tierney, J.E., Huber, B.T., Wing, S.L., Lunt, D.J., Ford, H.L., Inglis, G.N., McClymont, E.L., O'Brien, C.L., Rattanasriampong, R., Si, W., Staitis, M.L., Thirumalai, K., Anagnostou, E., Cramwinckel, M.J., Dawson, R.R., Evans, D., Gray, W.R., Grossman, E.L., Henehan, M.J., **Hupp, B.N.**, MacLeod, K.G., O'Connor, L.K., Montes, M.L.S., Song, H., and Zhan, Y., 2022, The PhanSST global database of Phanerozoic sea surface temperature proxy data: *Scientific Data*, v. 9 (753), <https://doi.org/10.1038/s41597-022-01826-0>
5. **Hupp, B.N.**, Kelly, D.C., and Williams, J.W., 2022, Isotopic Filtering Reveals High Sensitivity of Planktic Calcifiers to Paleocene-Eocene Thermal Maximum Warming and Acidification: *PNAS*, v. 119, 7 p., e2115561119, <https://doi.org/10.1073/pnas.2115561119>
4. **Hupp, B.N.** and Kelly, D.C., 2020, Distortions, discrepancies, and delays: Size-dependent sediment mixing and the deep-sea record of the Paleocene-Eocene thermal maximum from ODP Site 690 (Weddell Sea), *Paleoceanography and Paleoclimatology*, v.35, <https://doi.org/10.1029/2020PA004018>
3. **Hupp, B.N.**, Kelly, D.C., Zachos, J.C., and Bralower, T. J., 2019, Effects of Size-Dependent Sediment Mixing on Deep-Sea Records of the Paleocene-Eocene Thermal Maximum: *Geology*, v. 47, p. 749-752, <https://doi.org/10.1130/G46042.1>
2. **Hupp, B.N.** and Weislogel, A.L., 2018, Geochemical insights into provenance of the Middle Devonian Hamilton Group of the central Appalachian Basin: *Journal of Sedimentary Research*, v. 88, p. 1153-1165, <https://doi.org/10.2110/jsr.2018.62>
1. **Hupp, B.N.** and Donovan, J.J., 2018, Quantitative mineralogy of the Marcellus Shale, Appalachian Basin, USA, based on XRD-XRF integration: *Sedimentary Geology*, v. 371, p. 16-31, <https://doi.org/10.1016/j.sedgeo.2018.04.007>

IN REVIEW/IN PREPARATION PUBLICATIONS

*denotes student mentee

5. **Hupp, B.N.**, and Fehrenbacher, J.S., *in revision*, Processes reflected in the stable carbon isotope of dissolved inorganic carbon ($\delta^{13}\text{C}_{\text{DIC}}$) in the dynamic Northern California Current; for submission to *Limnology and Oceanography*.

4. **Hupp, B.N.**, and Fehrenbacher, J.S., *in review* (submitting Spring 2026), Refining the $\delta^{18}\text{O}_{\text{sw}}$ -salinity relationship in the Northern California Current and comparisons to the North Pacific; for submission to *Marine Chemistry*.
3. *Gallotti, J.S., **Hupp, B.N.**, Berger, P.M., Wiens, A.M., Buursink, M.L., Jones, M.M., and Brennan, S.T., *in review*, Modeling microbial sulfate reduction and methanogenesis during underground hydrogen storage in porous media, for submission to *International Journal of Hydrogen Energy*.
2. **Hupp, B.N.** and Kelly, D.C., *in preparation* (submitting Summer 2026), Response of High-Latitude Planktic Foraminifera to the Paleocene Eocene Thermal Maximum: Insights from the Southern Indian Ocean (ODP Site 1135); for submission to *Marine Micropaleontology*.
1. **Hupp, B.N.**, Fehrenbacher, J.S., Doherty, S.C., Davis, C.V., Benitez-Nelson, C., Fisher, J., Tappa, E., *Hasley-Velez, S., *Burgess, A., *Curtis, N., *Miller, C., *Limroth, G., Olsen, S., & Baxter, S., *in preparation* (submitting Summer 2026), Salp bloom impacts on inorganic carbon flux to the seafloor, for submission to *Science Advances*.

ABSTRACTS AND CONFERENCE PAPERS

*denotes oral presentation; **denotes invited speaker, †denotes student/postdoctoral mentee

49. †Elders, S., Hess, A., and **Hupp, B.N.**, 2026, Investigating the Potential for Pacific Overturning Circulation During the Mid-Miocene Climactic Optimum: Insights from the North Pacific Ocean, 2026 Climate and Biotic Events of the Paleogene Conference
48. †Kong, T., **Hupp, B.N.**, Penman, D., Burkett, A., Thompson, M., Bohaty, S., Foxall, J., and Westerhold, T., 2026, Disentangling Paleoclimate Signals Across the Paleocene-Eocene Thermal Maximum Using Individual Foraminiferal Analyses from IODP Site U1580, Agulhas Plateau, 2026 Climate and Biotic Events of the Paleogene Conference
47. Penman, D., Burkett, A., **Hupp, B.N.**, Bohaty, S., Westerhold, T., †Kong, T., Thompson, M., and Foxall, J., 2026, Foraminiferal carbon and oxygen isotopes reveal dynamic climate and carbon cycle behavior during the early PETM onset, 2026 Climate and Biotic Events of the Paleogene Conference
46. †Miller, C., **Hupp, B.N.**, and Fehrenbacher, J., 2026, Constraining Depth Habitat Preferences of Polar and Subpolar Planktic Foraminifera: Insights from the Northern California Current, 2026 FORAMS Conference.
45. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., †Klug, P., and Fehrenbacher, J.S., 2026, Development of Foraminifera-Based Geochemical Proxies to Reconstruct Bottom Water Salinity and Saltwater Incursion in Estuaries: Insights from the Chesapeake Bay, 2026 FORAMS Conference.
44. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., †Klug, P., and Fehrenbacher, J.S., 2026, Influence of Bottom Water Dissolved Oxygen on Manganese Incorporation into Benthic Foraminifera Native to the Potomac River and Chesapeake Bay Estuary, 2026 FORAMS Conference.
43. †Mozisek, A.M., **Hupp, B.N.**, and †Burgess, A., 2026, Spatiotemporal Variability in Benthic Foraminiferal Assemblages from Potomac River and Chesapeake Bay Surface Sediment, 2026 FORAMS Conference

42. †Klug, P., and **Hupp, B.N.**, 2026, Investigating the response of the *Ammonia-Elphidium* Foraminiferal Index to changing environmental conditions in the northern Chesapeake Bay over the last ~200 years, 2026 FORAMS Conference
41. Hess, A.V., Abell, J.T., Auderset, A., Burls, N.J., †Elpers, S., Gilleaudeau, G.J., Hinnov, L.A., **Hupp, B.N.**, Martínez-García, A., Remirez, M.N., Rosenthal, Y., Sigman, D., and Zhou, X., 2026, Response of Ocean Oxygenation to Miocene and Pliocene Warm Periods, 2026 FORAMS Conference
40. Hess, A.V., Abell, J.T., Auderset, A., Burls, N.J., †Elpers, S., Gilleaudeau, G.J., Hinnov, L.A., **Hupp, B.N.**, Martínez-García, A., Remirez, M.N., Rosenthal, Y., Sigman, D., and Zhou, X., 2026, Ocean Oxygenation Response to Climate Change: Lessons from Past Warm Periods, 2026 Goldschmidt Conference
39. †Standring, P., **Hupp, B.N.**, Balestra, B., Bulian, F., Berke, M., Blättler, C., Huber, B., Flecker, R., Ducassou, E., Williams, T. and Exp. 401 Science Party, 2026 Preliminary planktic foraminiferal morphometric data from the pre-Messinian Salinity Crisis sediments of Exp 401 Site U1611A in the Alborán Basin, western Mediterranean Sea, IODP Expedition 401 Post-Cruise Meeting.
38. †Alfaro, O., Hubbard, B., Piatak, N., White, S., Resmini, R., **Hupp, B.N.**, and Gilleaudeau, G., 2026, Spectroscopic investigations of critical mineral hosts in zinc mine waste at the Tar Creek Superfund Site, GSA Triple Joint 75th Southeastern / 60th North-Central / 60th South-Central Annual Section Meeting.
37. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., †Klug, P., and Fehrenbacher, J.S., 2026, Influence of Bottom Water Dissolved Oxygen on Trace Element Incorporation into Benthic Foraminifera Native to the Potomac River and Chesapeake Bay Estuary, Ocean Sciences Meeting.
36. **Hupp, B.N.** and Fehrenbacher, J., 2026, Reconstructing Marine Carbon Cycling Dynamics from the $\delta^{13}\text{C}$ of Dissolved Inorganic Carbon in the Northern California Current, Ocean Sciences Meeting.
35. †Apel, E.V., Bryant, R.N., **Hupp, B.N.**, 2025, Diagenetic or Not: Addressing the Effects of Diagenesis on Carbon Isotopes in PETM Planktic Foraminifera from Walvis Ridge with Secondary Ion Mass Spectrometry, Midwest Geobiology Conference 2025.
34. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., †Klug, P., and Fehrenbacher, J.S., 2025, Influence of Salinity on Trace Element Incorporation into Benthic Foraminifera Found in the Potomac River and Chesapeake Bay Estuary, AGU Fall Meeting.
33. Mba, S., Bryant, R., †Burgess, A., and **Hupp, B.N.**, 2025, Investigation of the Morphological Responses of Benthic Foraminifera to Climate-Change-Induced Hypoxia in the Chesapeake Bay, AGU Fall Meeting.
32. **Hupp, B.N.** and Fehrenbacher, J., 2025, Reconstructing Marine Carbon Cycling Dynamics from the $\delta^{13}\text{C}$ of Dissolved Inorganic Carbon in the Northern California Current, AGU Fall Meeting.
31. †Klug, P., and **Hupp, B.N.**, 2025, Geological Reconstructions of Rainfall, Salinity, and Oxygenation Controls on Carbon Storage in Northern Chesapeake Bay, CERF 2025
30. Burkett, A.M., Penman, D.E., **Hupp, B.N.**, Ford, T., Ononeme, O., Rathburn, A., and Scrudder, E., 2025, Benthic Foraminiferal Strategies Across Environmental Extremes, from Modern Oxygen-Depleted Waters to Paleogene Hyperthermals, GSA Annual Meeting.

29. †Apel, E.V., Bryant, R., and **Hupp, B.N.**, 2025, Evaluating diagenetic influences on planktic foraminiferal shells from Walvis Ridge, Goldschmidt Conference.
28. †Klug, P., Belanger, C., and **Hupp, B.N.**, 2025, Benthic foraminifera as a tool for monitoring estuarine health: How spatial and temporal variation in foraminiferal assemblages record history of human activities within the Matagorda Bay system, GSA Southeastern Regional Meeting.
27. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., and Fehrenbacher, J.S., 2025, Preliminary Investigation of Environmental Controls on Trace Element Incorporation into Potomac River and Chesapeake Bay Benthic Foraminifera, GSA Southeastern Regional Meeting.
26. †Brown, M., **Hupp, B.N.**, †Burgess, A.K., and Uhen, M., 2025, Micropaleontological and geochemical insights into the age of fossil cetaceans *Maiabalaena nesbittae* and *Simocetus rayi*, GSA Southeastern Regional Meeting.
25. **Hupp, B.N.**, Fehrenbacher, J., †Burgess, A., and †Brown, M., 2024, Impact of preservative choice and cleaning approach on the trace element geochemistry of modern foraminifera, AGU Fall Meeting.
24. Fehrenbacher, J., **Hupp, B.N.**, Benitez-Nelson, C., Meyer, G., Schulte, C., Thompson, A., and Tappa, E., 2024, Controls on the trace element composition of polar planktic species *Neogloboquadrina pachyderma*: new insights from culture experiments, AGU Fall Meeting.
23. †Apel, E.V., Bryant, R.N., **Hupp, B.N.**, 2024, September 2024. Re-evaluating the ‘true’ magnitude of the carbon isotope excursion at the Paleocene-Eocene Thermal Maximum, Southeast Atlantic, Midwest Geobiology Conference 2024.
22. †Gallotti, J.S., Jin, Q., Jones, M.M., **Hupp, B.N.**, Wiens, A., Buursink, M.L., and Brennan, S.T., 2024, Modeling Microbial Sulfate Reduction and Methanogenesis Associated with Underground Hydrogen Storage in Illinois Basin Sandstones, AGU Fall Meeting.
21. †Burgess, A., **Hupp, B.N.**, Nelson, T.R., †Brown, M.W., Fehrenbacher, J.S., 2024, Preliminary Investigation of Environmental Controls on Trace Element Incorporation into Potomac River and Chesapeake Bay Benthic Foraminifera, AGU Fall Meeting.
20. †Baldwin, S., **Hupp, B.N.**, †Apel, E., and Bryant, R., 2024, Assessing the Impacts of Ocean Acidification and Warming on Foraminiferal Test Size and Preservation: Insights from the Paleocene-Eocene Thermal Maximum record at Ocean Drilling Program Site 1266 (Walvis Ridge), GSA Connects Meeting.
19. **Hupp, B.N.**, Fehrenbacher, J.S., Doherty, S.C., Davis, C.V., Benitez-Nelson, C., Fisher, J., Tappa, E., †Hasley-Velez, S., †Burgess, A., †Curtis, N., †Miller, C., †Limroth, G., Olsen, S., & Baxter, S., 2024, Salp blooms and their potential effect on inorganic carbon burial, Ocean Sciences Meeting.
18. †Gallotti, J.S., Jin, Q., **Hupp, B.**, Jones, M., Buursink, M., and Brennan, S.T., 2023, Biogeochemical modeling of underground hydrogen storage in Illinois Basin sandstones, GSA Connects Meeting.
17. ***Hupp, B.N.**, and Kelly, D.C., 2023, ‘Unmixing’ Deep-Sea Sedimentary Records of Planktic Foraminifer Community Turnover during the PETM through Isotopic Filtering, FORAMS 2023 Meeting.

16. **Hupp, B.N.**, and Fehrenbacher, J.S., 2023, Geochemical differences between alive, uncrusted and dead, crusted shells of the planktic foraminifera *Neoglobobulimina pachyderma*: Implications for paleoreconstruction, FORAMS 2023 Meeting.
15. Fehrenbacher, J., Lane, M.J., Fritz-Endres, T., **Hupp, B.**, Davis, C., Branson, O., Ren, A., Vetter, L., and Spero, H., 2023, The geochemistry of non-spinose foraminifera: What is it good for?, FORAMS 2023 Meeting.
14. **Hupp, B.N.**, and Fehrenbacher, J.S., 2022, To be crusted or not to be crusted: Differences in trace element geochemistry between shells of living and dead planktic foraminifera, AGU Fall Meeting.
13. **Hupp, B.N.**, and Fehrenbacher, J.S., 2022, To be crusted or not to be crusted: Differences in trace element geochemistry between shells of living and dead planktic foraminifera, GSA Annual Meeting.
12. **Hupp, B.N.**, Kelly, D.C., Kozdon, R., Orland, I., and Valley, J.W., 2021, Diagenetic controls on the carbon isotope record of the Paleocene Eocene thermal maximum at Ocean Drilling Program Site 1135 (southern Indian Ocean), AGU Fall Meeting.
11. ****Hupp, B.N.**, Kelly, D.C., and Jiang, S., 2021, Response of high latitude planktic foraminifer communities to the Paleocene-Eocene Thermal Maximum: Insights from the southern Indian Ocean (ODP Site 1135), GSA Annual Meeting.
10. ***Hupp, B.N.**, Kelly, D.C., and Williams, J.J., 2020, Isotopic filtering reveals high sensitivity of planktic foraminifers to Paleocene Eocene Thermal Maximum ocean acidification and warming: GSA Annual Meeting.
9. **Hupp, B.N.**, and Kelly, D.C., 2019, Single-shell Stable Isotope Signatures as a Taphonomic Filter: Deconvolving the Effects of Sediment Mixing on Tropical Planktic Foraminiferal Assemblages from Paleocene-Eocene Thermal Maximum: AGU Fall Meeting, San Francisco, CA.
8. Valencia Villa, A., Mixon, E., Bate, C.E., Callahan, E.H., Honig, S., **Hupp, B.N.**, Parrish, E., Roberts, N., and Krishnan, A., 2019, Invigorating the geoscience community: Graduate student-led efforts in creating inclusive, equal, and diverse science and community at the University of Wisconsin-Madison: AGU Fall Meeting, San Francisco, CA.
7. ***Hupp, B.N.**, Kelly, D.C., Zachos, J.C., and Bralower, T. J., 2018, Effects of Size-Dependent Sediment Mixing on Deep-Sea Records of the Paleocene-Eocene Thermal Maximum: GSA National Meeting (Nov. 2018, Indianapolis, IN), Paper No. 212-6
6. Weislogel, A. and **Hupp, B.**, 2017, Identifying Lithosomes of the Marcellus Shale: A Provenance Approach: Eastern Section AAPG 46th Annual Meeting, Tuesday September 26, 2017.
5. Song, L., Paronish, T., Agrawal, V., **Hupp, B.**, Sharma, S., and Carr, T., 2017, Depositional environment and impact of pore structure and gas storage of Middle Devonian organic rich shale, northeastern West, Virginia, Appalachian Basin: URTEC Paper #2667387, doi: 10.15530/URTEC-2017-2667397.
4. ***Hupp, B.N.**, Weislogel, A.L., and Donovan, J.J., 2017, Provenance of the Marcellus Shale: Geochemical insights into the source to sink relationships within the Middle Devonian Acadian Foreland Basin: Geological Society of America NE/NC Regional Meeting-Abstracts with Program, v. 49, paper no. 17-1

- 3.***Hupp, B.N.**, 2017, The Unconventional Minority: Preparing Single Parents for Success within the Geosciences: Geological Society of America NE/NC Regional Meeting-Abstracts with Program, v. 49, paper no. 32-3
- 2.***Hupp, B.N.**, Weislogel, A.L., and Donovan, J.J., 2016, Interactions between Provenance, Paleoclimate, and Productivity in the Devonian Millboro Shale, North-Central West Virginia: Geological Society of America-Abstracts with Programs, v. 48, paper no.200-10
1. **Hupp, B.N.**, and Mann, K.O., 2015, High Resolution Conodont Biostratigraphy of the Dundee Limestone, Michigan Basin: Geological Society of America-Abstracts with Programs, v. 47, p. 337

ACADEMIC MENTORSHIP

Graduate academic advisor for:

- Allison Burgess, PhD Chemistry candidate – in progress
- João Gallotti, PhD Environmental Science and Public Policy candidate – in progress
- Paige Klug, PhD Environmental Science and Public Policy – in progress
- Olabayo Olaopa, PhD Geology and Earth Science – in progress
- Owen Alfaro, MSc Earth Systems Science – in progress (co-advised with Geoff Gilleaudeau)
- Sara Thomasian, MSc Earth Systems Science – in progress
- Anna Marie Mozisek, MSc Earth Systems Science – in progress
- Caroline Miller, MSc Environmental Science and Public Policy, graduating Spring 2026
Thesis: Constraining the Depth Habitat Preferences of Polar and Subpolar Planktic Foraminifera: Insights from the Northern California Current
- Mason Brown, MSc Earth Systems Science, graduated Summer 2025
Thesis: A Multiproxy Approach to Constraining the Age and Paleoenvironment of Two Paleogene Fossil Cetaceans

Graduate committee member for:

- Emily Apel, PhD Geology & Geophysics, Purdue University – in progress
- Maya Thompson, PhD Geology, Utah State University – in progress
- Edward Medeiros, PhD Environmental Science and Public Policy – in progress
- Samuel Madison Thompson, MSc Earth Systems Science – in progress
- Abel Aragon, MSc Earth Systems Science, Spring 2024
- Sylvia Hasley-Velez, MSc Earth Systems Science, Spring 2024

Undergraduate student research mentees:

- Sarah Elpers (2025-present)
Research Project: Investigating the Potential for Pacific Overturning Circulation During the Mid-Miocene Climatic Optimum: Insights from the North Pacific Ocean
- Elliana Burgos (2025-present)
- Jessica Hale (2025- present)
- Gavin Limroth (2023-present)
- Sydnee Baldwin (2024)
Research Project: Assessing the Impacts of Ocean Acidification and Warming on Foraminiferal Test Size and Preservation: Insights from the Paleocene-Eocene Thermal Maximum record at Ocean Drilling Program Site 1266 (Walvis Ridge)

- Nicole Curtis (2023-2024)
Research Project: The Effect of Salp Blooms on Planktic Foraminifera and Pteropod Populations in the Surface Ocean
- Caroline Miller (2023-2024)
- Eric Hjaltason (2023-2024)

High School student research mentees:

- Nishka Shah (2025-present)
- Julie Kinkead (2025-present)

EXTERNAL & INTERNAL FUNDING

Total funding acquired since starting at GMU = \$754K; Total funding pursued post-PhD= \$5.32M;
Total funding pursued to GMU=\$3.01M

Awarded/Recommended for Funding:

- 2026 **GMU Summer Teams Impact Project**
Title: Investigating the Impact of Changing Salinity and Dissolved Oxygen Conditions on Organisms Native to the Chesapeake Bay Estuary
Lead PI, \$52,932 over summer 2026
Co-PI: T. Reid Nelson (GMU, EVPP)
- 2025-2028 **National Science Foundation Division of Ocean Sciences: Paleo Perspectives on Present and Projected Climate Change**
Title: Collaborative Research: Disentangling paleoclimate signals with individual foraminiferal analyses from a new record of the Paleocene-Eocene Thermal Maximum
co-PI, \$854,322 over three years, \$381,740 to GMU
Lead PI: Donald Penman (Utah State Univ.), co-PI: Ashley Burkett (Oklahoma State Univ.)
- 2022-2025 **National Science Foundation Division of Ocean Sciences: Marine Geology & Geophysics**
Title: Improving High Latitude Foraminiferal Paleoproxies: Insights from Northern California Current Modern and Historical Records
Lead PI, \$268,746 total over three years, \$208,660 to GMU
Co-PI: Jennifer Fehrenbacher (Oregon State University)
- 2023 **International Ocean Discovery Program, United States Science Support Program**
Title: Hybrid Workshop: Establishing Early-Career Scientific Ocean Drilling Communities:
Lead PI, \$50,000 over 1 year, \$0 to GMU
Co-PIs: John Ajayi (Univ. of Connecticut), Raquel Bryant (Wesleyan University), Shamar Chin (Univ. of Iowa), Mohammed Hashim (Woods Hole Oceanographic Institution), Laura Haynes (Vassar College), Christopher Kinsley (Univ. of California, Berkeley), and Lucien Nana Yobo (Texas A&M Univ.)
- 2021-2023 **National Oceanic and Atmospheric Administration Climate & Global Change Postdoctoral Fellowship**
Title: Utilization of Northern California Current Historical Records for Paleoproxy Development
PI, \$159,130 over 2 years

2021 **National Science Foundation Ocean Sciences Postdoctoral Research Fellowship***
Title: Planktic Foraminiferal Response to a Modern Changing Ocean: Insights from the California Current & Implications for Past, Present, and Future Climate Change
PI, \$158,000 over 2 years
**Award declined, as I could only accept one postdoctoral fellowship*

Under Review:

2026-2029 **National Science Foundation Division of Ocean Sciences: Marine Geology & Geophysics**
Title: Collaborative Research: From Flow to Fossils: Linking Gulf Stream dynamics to sedimentation in the Mid-Atlantic Bight
co-PI
 Lead PI: Catherine Davis (North Carolina State University), co-PI: Claudia Benetiz-Nelson (University of South Carolina)

2027-2030 **National Science Foundation Division of Ocean Sciences: Marine Geology & Geophysics**
Title: Collaborative Proposal: Toward robust geochemical proxies - Linking calcification depth, morphology, and chemistry in high-latitude planktic foraminifera
co-PI
 Lead PI: Jennifer Fehrenbacher (Oregon State University), co-PI: Casey Saenger (Western Washington University)

2026-2027 **National Science Foundation Division of Environmental Biology**
Title: RAPID: Ecosystem Response to a Major Sewage Spill in the Potomac River Estuary: Disturbance, Contaminant Legacies, and Biological Thresholds
co-PI
 Lead PI: Jennifer Salerno (George Mason University), co-PIs: Amy Fowler, Reid Nelson, Benoit Van Aken (George Mason University)

2026-2027 **4-VA Grants Program**
Title: Reconstructing Bottom Water Salinity in the Northern Chesapeake Bay Over the Past ~500 Years
 Lead PI
 Co-PI: James Kaste (College of William & Mary)

Recently Unsuccessful (well-reviewed, plans to revise and resubmit):

2025 **National Science Foundation Division of Ocean Sciences: Marine Geology & Geophysics**
Title: Collaborative Research: Unraveling diagenetic influences on deep sea geochemical and micropaleontological records of the PETM
co-PI, \$812,571 over three years, \$211,859 to GMU
 Lead PI: Roger Bryant (Purdue University)

2025 **National Science Foundation Division of Ocean Sciences: Marine Geology & Geophysics**
Title: Collaborative Research: Development of Salinity and Redox Proxies in a Natural Laboratory: Insights from the Potomac River Estuary and Chesapeake Bay
Lead PI, \$1,165,676 over three years, \$989,477 to GMU
 Co-PIs: Geoffrey Gilleaudeau (GMU), T. Reid Nelson (GMU), Raquel Bryant (Wesleyan University)

- 2025 **National Science Foundation Division of Ocean Sciences: Biological Oceanography**
Title: ULTRA DATA: Collaborative Research: Impacts of Pelagic Tunicate Blooms on Organic and Inorganic Carbon Cycling: Observations from Sediment Trap, Plankton Tow, and Satellite Time Series
Lead PI, \$947,612 over three years, \$426,058 to GMU
 Co-PIs: Rut Pedrosa-Pamies (Marine Biological Laboratory), Jennifer Fehrenbacher (Oregon State Univ.), Maria Kavanaugh (Oregon State Univ.)

HONORS & AWARDS

- 2025 Prince William Ducks Unlimited 2025 Conservationist of the Year – PEREC Faculty Team
 2024 2024 Geological Society of Washington Bradley Award for Best Scientific Talk

GRADUATE & UNDERGRADUATE HONORS, GRANTS, AND AWARDS

Total funding acquired = \$158,670

- 2021 University of Wisconsin-Madison Department of Geoscience Fowler Billings Grant for DEI Efforts (\$5,400)
 2021 Univ. of Wisconsin-Madison Department of Geoscience Outstanding Paper Award
 2021 Univ. of Wisconsin-Madison Department of Geoscience Tyler Teaching Award
 2020 Cushman Foundation Johanna S. Resig Research Fellowship (\$15,000)
 2020 AWG-Paleontological Society Winifred Goldring Award (\$2,000)
 2020 Cushman Foundation Student Research Award (\$3,000)
 2020 Dept. of Geoscience S.W. Bailey Distinguished Graduate Student Award, UW-M
 2020 Ken and Linda Ciriacks Distinguished Graduate Fellowship, UW-M (1 semester support)
 2020 C.F. Schiesser Outstanding Student Research Paper Award, UW-M
 2020 OB Shelbourne Summer Research Award, UW-M (\$3,000)
 2020 Paleontological Society Allison R. “Pete” Palmer Student Research Award (\$1,200)
 2019 NSF Scholarship to Urbino Summer School in Paleoclimatology
 2019 George J. Verville Award in Paleontology, UW-M (\$1,000)
 2019 James D. and Stella M. Robertson Graduate Research Assistantship (1 semester RA)
 2019 Univ. of Wisconsin-Madison Department of Geoscience Summer Research Awards (\$2,000)
 2018 Geological Society of America Exxon Mobile Student Research Grant (\$5,000)
 2018 Society of Sedimentary Geology Student Research Grant (\$1,300)
 2018 American Association of Petroleum Geologists M. Ray Thomasson Named Grant (\$2,500)
 2018 University of Wisconsin-Madison Cool Science Photograph Winner
 2016 Geological Society of America Student Meeting Travel Award
 2016 Society of Sedimentary Geology (SEPM) Student Meeting Travel Award (\$300)
 2016 West Virginia University Shumaker Graduate Student Travel Award (\$600)
 2016 American Association of Petroleum Geologists Foundation Grants-in-Aid (\$2,000)
 2016 Geological Society of America Student Research Grant (\$1,375)
 2016 West Virginia University Shumaker Student Research Grant (\$1,400)
 2016 Society of Sedimentary Geology (SEPM) Foundation Student Research Grant (\$800)
 2015 West Virginia University Shumaker Graduate Student Travel Award (\$575)
 2015 Chesapeake Energy Fellowship (\$2,000)
 2015 Graduated *Cum Laude*
 2015 Graduated with Departmental Honors in Geology
 2015 R.E. Shanklin Distinguished Scholar in Geology Award (\$500)
 2014 Ohio Wesleyan University Theory to Practice Grant (\$4,642)

2014-2015 Raymond H. and Beryl Dean Penick STEMM Scholarship (\$4,000)
 2013-2015 Crowl-Shanklin Geology Scholarship (\$1,000/yr)
 2013 Sigma Gamma Epsilon Inductee
 2012-2014 Julius and Beula Lenz Science and Engineering Scholarship (\$1,000/yr)
 2011-2015 Leland F. and Helen Schubert Honors Program
 2011-2015 Leland F. and Helen Schubert Scholarship (\$17,500/yr)
 2011-2015 Ohio Wesleyan University Founders Scholarship (\$6,000/yr)
 2011-2012 Floyd and Alberta Mahard Scholarship (\$1,000)

TEACHING EXPERIENCE

*indicates course I developed or co-developed; "TA" denotes taught as a graduate teaching assistant

Spring 2026 GEOL 364: Marine Geology (7 students)
 Spring 2026 GEOL 301: Geology of Death Valley and Owens Valley (14 students)
 Spring 2025 GEOL 406/603: Geochemistry, GMU (23 students)
 Spring 2025 *GEOL 404/500: Geology of Utah Field Course, GMU (19 students)
 Spring 2025 GEOL 392/792: Earth Systems Science Seminar, GMU
 Fall 2024/25 *GEOL 120: The Changing Ocean Lecture, GMU (40 students)
 Fall 2024 GEOL 392/792: Earth Systems Science Seminar, GMU
 Spring 2024 GEOL 364: Marine Geology, GMU (14 students)
 Spring 2024 *GEOL 404/500: Death Valley Field Course, GMU (18 students)
 Spring 2024 GEOL 392/792: Earth Systems Science Seminar, GMU
 Fall 2023 GEOL 309: Oceanography, GMU (48 students)
 Fall 2023 *GEOL 120: The Changing Ocean Lecture, GMU (29 students)
 Fall 2023 *GEOL 121: The Changing Ocean Laboratory, GMU (13 students)
 Spring 2023 GEOL 406/603: Geochemistry, GMU (10 students)
 Spring 2021 Intro to Natural Science for Elementary Education, Edgewood College (30 students)
 Spring 2021 Oceans and Atmosphere, Edgewood College (40 students)
 Fall 2020 Oceans and Atmosphere, Edgewood College (40 students)
 Spring 2019 TA: Geosci 204: Historical Geology Laboratory, UW-M (~40 students)
 Fall 2018 TA: Geosci 110: Evolution and Extinction Laboratory, UW-M (~100 students/sem.)
 Spring 2018 TA: Geosci 110: Evolution and Extinction Laboratory, UW-M (~100 students/sem.)
 Fall 2017 TA: Geosci 202: Introduction to Geologic Structures Laboratory, UW-M (~20 students)
 Summer 2017 TA: Geol 102: Introductory Geology Laboratory, WVU (69 students)
 Spring 2017 TA: Geol 104: Historical Geology, Guest Lecturer, WVU
 Spring 2017 TA: Geol 104: Historical Geology Laboratory, WVU (60 students)
 Spring 2016 TA: Geol 104: Historical Geology Laboratory, WVU (96 students)
 Fall 2016 TA: Geol 331: Paleontology Laboratory, WVU (~50 students)
 Fall 2015 TA: Geol 102: Introductory Geology Laboratory, WVU (69 students)

PRE-DOCTORAL RESEARCH EXPERIENCE

2017-2021 Lab Member, Micropaleontology and Paleoceanography Laboratory (UW-M)
 2016-2017 Research Assistant, Marcellus Shale Energy and Environmental Laboratory (MSEEL)
 2015-2017 Lab Member, Sedimentary Basins Research Laboratory (WVU)
 2014-2015 Research Assistant, Micropaleontology Laboratory (OWU)
 2011-2012 Lab Member, Aquatic Animal Behavior Laboratory (OWU)

FIELD EXPERIENCE & RESEARCH CRUISES

May 2024	Oregon Eocene/Oligocene Outcrops (3 days)
2023-2026	Chesapeake Bay/Potomac River Field Sampling (18 days)
May 2023	Offshore California, Oregon, Washington Coast Field Sampling Research Cruise (18 days)
Sept. 2022	Offshore California, Oregon, Washington Coast Field Sampling Research Cruise (13 days)
May 2022	Offshore California, Oregon, Washington Coast Field Sampling Research Cruise (13 days)
March 2022	Offshore Oregon Coast Field Sampling Research Cruise (7 days)
Sept. 2021	Offshore Oregon Coast Field Sampling Research Cruise (6 days)

FIELD COURSES

*denotes teaching/co-teaching of field course

Mar. 2025	*Geology of Utah Spring Break Field Course (7 days, 19 students)
Mar. 2024/'26	*Death Valley, CA Spring Break Field Course (7 days, 18 students)
Oct. 2017	*Field Mapping of the Black Hills, SD, USA (4 days, 80 students)
April 2017	Modern Coastal Depositional Systems in Congaree National Park & Sapelo Island: GA, USA
May 2016	Sequence Stratigraphy of the Book Cliffs, UT, USA
Apr. 2016	Miocene Facies and Fossils along Chesapeake Bay, MD, USA
Mar. 2015	Marine Biology and Mathematical Modeling: Field Course in St. John, USVI
Oct. 2014	Field Study of Alleghany Structural Front: WV, USA
Mar. 2014	Petrographic Analysis of the Great Unconformity of the St. Francis Mountains: MO, USA
Mar. 2013	Field Study of Deformation Events in the Appalachians of Pennsylvania: PA, USA
Oct. 2012	Paleontological Study of Cincinnati Outcrops in Southeast Indiana: IN, USA
May 2012	Tectonics, Volcanology, & Geothermal Energy in the N. Atlantic: Field Course in Iceland

WORKSHOPS & CONFERENCES LED/ORGANIZED

2025- 2026	CBEP 2026: Climate and Biotic Events of the Paleogene Steering Committee Members
April 2025	Geochemical Society Webinar: Introduction to Accessing Legacy Scientific Ocean Drilling Materials (Sole Speaker)
Aug. 2023	International Ocean Discovery Program Establishing Early-Career Scientific Ocean Drilling Learning Communities (~40 attendees)
June 2022	International Ocean Discovery Program IMPACT: Advancing Scientific Ocean Drilling Impact (~120 attendees)
Oct. 2019	Manuscript Writing 101: Preparing Your Work for Publication (~20 attendees)

SHORT COURSES, SUMMER SCHOOLS, & WORKSHOPS

Oct. 2024	Targeting Pacific Highs for Past Records of Warm Climates
Sept. 2024	Ocean Observatories Initiative Coastal Pioneer Southern Mid-Atlantic Bight (MAB) Array Community Workshop
March 2024	FUTURE of US Scientific Ocean Drilling
Aug. 2023	International Ocean Discovery Program Establishing Early-Career Scientific Ocean Drilling Learning Communities

June 2022	International Ocean Discovery Program IMPACT: Advancing Scientific Ocean Drilling Impact
Spring 2022	Oregon Museum of Science & Industry Science Communication Fellowship Workshops
Oct. 2021	Social Justice Education Initiative Workshop
Sept. 2021	PhanTASTIC (Phanerozoic Technique Averaged Surface Temperature Integrated Curve) Workshop
Aug. 2021	International Ocean Discovery Program IMPACT Next Generation Workshop
June 2021	Identifying New Community-Driven Science Themes for NSF's Support of Paleo Perspectives on Climate Change (P2C2): A Workshop
Spring 2021	Community of Practice on Scholarship of Teaching and Learning
Spring 2021	URGE: Unlearning Racism in Geosciences, Midwest Pod
Oct. 2020	An Introduction to Stratigraphic Data Analysis in R (SDAR), a Quantitative Toolkit to Analyze Stratigraphic Data
Fall 2020	Community of Practice on Course Design & Inclusive Teaching
Sum. 2020	An Introduction to Evidence-Based Undergraduate STEM Teaching
Feb. 2020	Demystifying the IODP Proposal Process for Early Career Scientists: Pacific Ocean
June 2019	Urbino Summer School of Paleoclimatology
March 2017	Micro- to Nano- Scale Features of Mudrocks Short Course

INVITED TALKS

April 2026	Pal(a)eo PERCS International Seminar Series
April 2026	University of Maryland, Department of Geological, Environmental, and Planetary Sciences
Feb. 2026	Johns Hopkins University, Earth and Planetary Sciences Department
Nov. 2025	William & Mary, Geology Department
Oct. 2025	Rowan University, Geology Department
Oct. 2025	George Mason University, Geography and Geoinformatics Dept.
April 2025	Geochemical Society, Webinar
Nov. 2024	Geological Society of Washington
Feb. 2024	George Mason University, Chemistry and Biochemistry Dept.
March 2023	Smithsonian National Museum of Natural History, Paleobiology Dept.
Feb. 2023	North Carolina State University, Marine, Earth and Atmospheric Sciences Dept.
Oct. 2022	Rutgers University Earth & Planetary Sciences Dept. Research Seminar
Feb. 2022	Western Michigan Univ. Geological & Environmental Sciences Dept. Research Seminar
Feb. 2022	George Mason University AOES Research Seminar
Oct. 2021	Oregon State University QuatTea Seminar Series
Aug. 2021	Panelist for International Ocean Discovery Program IMPACT Next Generation Workshop: Effective Mentoring Strategies
Nov. 2019	University of Wisconsin-Madison Paleontology Club

REVIEWER FOR:

Journals: Nature Communications, Proceedings of the National Academy of Sciences; Journal of Geophysical Research: Atmospheres; Journal of Plankton Research, Palaeogeography, Palaeoclimatology, Palaeoecology (Palaeo3); Geochemistry, Geophysics, Geosystems (G3); Paleoceanography & Paleoclimatology; Geosciences; Rapid Communications in Mass Spectrometry; The Depositional Record; Journal of Palaeogeography; Journal of Asian Earth Sciences

Funding Agencies: United States National Science Foundation (NSF OCE) Ocean Sciences: Marine Geology and Geophysics; NSF OCE Postdoctoral Fellowship Program; International Ocean Discovery Program; United States Science Support Program; Swiss National Science Foundation

Government Agencies: United States Geological Survey

ACADEMIC SERVICE, LEADERSHIP, AND VOLUNTEERING

2026	FORAMS Conference Session Chair and Co-Convener (2 sessions)
2025	NSF Division of Ocean Sciences Review Panelist
2024	American Geophysical Union Fall Meeting Session Convener & Chair
2023-	American Geophysical Union Bridge Liaison for GMU AOES Department
2022	American Geophysical Union Fall Meeting Session Convener & Chair
2021- 2022	American Geophysical Union Paleoclimatology/Paleoceanography Student and Early Career Working Group
2021	American Geophysical Union Fall Meeting Session Co-Chair
2021	American Geophysical Union Outstanding Student Presentation Award Judge
2021	Geological Society of America Onto the Future Mentor
2021-2022	Geosciences Education & Mentorship Support Mentor
2020	Ocean Observation Initiative Data Labs Fall Pilot Implementation Cohort
2020	Teaching Assistant-Faculty Committee, Graduate Student Representative (UW-M)
2019-2020	President, Geoscience Graduate Student Association (UW-M)
2019-2020	Treasurer, Association for Women Geoscientists, UW-Madison Chapter
2019-2020	Department Climate Survey Committee, Graduate Student Representative (UW-M)
2018-2020	Weeks Lecture Series Committee, Graduate Student Representative (UW-M)
2018-2019	President and Co-Founder, Association for Women Geoscientists, UW-Madison Chapter
2018-2019	Graduate Student Faculty Liaison (UW-M)
2017-2018	Graduate Student Isotope Geochemistry Faculty Search Committee (2 searches; UW-M)
2016-2017	Geology Department Masters Student Representative (WVU)
2014-2015	President: Sigma Gamma Epsilon, Delta Lambda Chapter (OWU)
2013-2015	Ohio Wesleyan University Geology Student Board

PUBLIC OUTREACH

Fall 2024	<i>Support Expert for Aldie Elementary School's First Lego League Team:</i> Introduced the team to some of the technical challenges that oceanographers face and helped them to refine their potential solutions to these issues. The team won the regional prize for Innovation for their idea.
Aug. 2024	<i>Females of Color and those Underrepresented in STEM (FOCUS) Camp:</i> Organized and conducted a workshop for high schoolers on the use of microfossils in investigating past climate change.
Nov. 2024	<i>Climate Change Panel following Woodson High School "The Trials" Production:</i> Organized and served on an audience-expert discussion following local high school theater production of the climate change-focused play <i>The Trials</i> .
2022-2023	<i>Oregon Museum of Science and Industry Science Communication Fellow:</i> Worked with OMSI staff to develop an outreach tool to be shared at several public outreach.

- Oct. 2018 *Wisconsin Science Weekend Public Outreach*: Helped to organize, construct, and conduct outreach events at two WI state parks throughout the weekend, focusing on communicating the geologic history of the state to the public.
- May 2018 *Geology Lesson at Madison School Forest*: Organized and taught several outdoor geology lessons to local elementary school students (3rd grade) investigating sandstone outcrops in which students used their observations to make hypotheses about potential past environments.
- April 2017 *Cub Scout Fossil Dig*: Organized an activity for scouts (1st-3rd grades) to dig up dinosaur skulls (small replicas), identify the “fossil” using pictures, and report to the group fun-facts about the dinosaur they uncovered.
- May 2016 *Cub Scout Geology Hike*: Lead scouts and their families on a ~2 hour geology hike through the local boy scout camp to learn about how we can use our observations to make interpretations from rocks.
- March 2016 *Geology Read-In*: Visited 2nd grade classroom at Eastwood Elementary to read to them books about geology.

MEDIA INTERVIEWS AND ARTICLES

- GeochemisTea Podcast, 2025, *Probing paleorecords to understand future climates with Brittany Hupp*
<https://creators.spotify.com/pod/show/geochemistea/episodes/Probing-paleorecords-to-understand-future-climates-with-Brittany-Hupp-e31ar4t/a-absjud5>
- Flatt, C., 2022, *This single-celled sea critter could help scientists learn about climate change*, NWNews,
<https://www.nwnewsnetwork.org/2022-06-23/this-single-celled-sea-critter-could-help-scientists-learn-about-climate-change>
- Burakoff, M., 2022, *Deep dive: UW researchers find climate clues in tiny fossils from the ocean floor*, Spectrum News 1, <https://spectrumnews1.com/wi/milwaukee/news/2022/03/22/deep-dive--uw-researchers-find-climate-clues-in-tiny-fossils-from-the-ocean-floor->
- Barncard, C., 2022, *Ancient example of modern global warming was too hot for tiny, important ocean critters*, University of Wisconsin-Madison News, <https://news.wisc.edu/ancient-example-of-modern-global-warming-was-too-hot-for-tiny-important-ocean-creatures/>

PROFESSIONAL AFFILIATIONS

- 2019-Present American Geophysical Union
 2018-Present Cushman Foundation
 2018-Present Paleontological Society of America, member #:1316898
 2016-Present SEPM, Society for Sedimentary Geology, member #: 51042
 2015-Present American Association of Petroleum Geologists, member #: 10138956
 2013-Present Association for Women Geoscientists
 2013-Present Geological Society of America, member #: 9177958
 2013-2015 Sigma Gamma Epsilon

ANALYTICAL & LABORATORY EXPERIENCE

Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS)

Secondary Ion Mass Spectrometry (SIMS)

Gas Source Isotope Ratio Mass Spectrometry (GS-IRMS)

Scanning Electron Microscopy (SEM)

Energy Dispersive X-ray Spectroscopy (EDS)

X-ray Fluorescence (XRF)

X-ray Diffraction (XRD)

Microfossil Extraction

Thin Section Preparation

Proficiency in R Coding Language