

# Asmara A. Lehrmann

PhD Candidate

Department of Earth and Atmospheric Sciences

The University of Houston, Texas

aalehrmann@uh.edu

lehrmannasmara.wixsite.com/home

---

## CURRENT POSITION

Ph.D. Candidate in Geology. **University of Houston.**

August 2023 – Present

Advisor: Dr. Julia Wellner

Anticipated completion: September 2026

National Science Foundation Graduate Research Fellowship

2020 – 2025

## EDUCATION

B.S. **Trinity University.** Geoscience

2019 - 2023

Advisor: Dr. Kathy Surpless

Thesis title: *Holocene Frequency of Paleo-Floods in Mobile Bay from Sediment Grain Size, Elemental, and Foraminifer Analyses: Implications for Recent Estuarine Eutrophication Events*

## APPOINTMENTS

**Graduate Employee**

*Department of Earth and Atmospheric Sciences, University of Houston*

Fall 2023 – present

**Graduate Employee**

*Department of Geosciences, University of Alabama, Tuscaloosa*

Fall 2019 – Winter 2022

## RESEARCH CRUISES

NBP22-02

7 December 2021 – 9 March 2022

International Thwaites Glacier Collaboration's Thwaites Offshore Research group

*RVIB Nathaniel B. Palmer* to Amundsen Sea, Antarctica

NBP20-02

January – 31 March 2020

International Thwaites Glacier Collaboration's Thwaites Offshore Research group

*RVIB Nathaniel B. Palmer* to Amundsen Sea, Antarctic

## SKILLS

Expertise in foraminifera assemblages, sedimentology, stratigraphy, and glacial geomorphology | Expertise in gamma spectrometry on Canberra, and laser particle analysis on Malvern Mastersizers, Bettersizers, and CILAS| Experienced in developing radioisotope age models | Trained on CARIS multibeam editing | Proficient and trained in EIVA NaviEdit and NaviModel processing of AUV multibeam data | Proficient in Adobe Suite, Inkscape, and GIMP | Proficient in R | Proficient in QGIS and trained in ArcGIS | Developing skills in python

## PUBLICATIONS

*Peer reviewed publications*

1. **Lehrmann, A. A.**, Totten, R. L., Wellner, J. S., Hillenbrand, C.-D., Radionovskaya, S., Comas, R. M., Larter, R. D., Graham, A. G. C., Kirkham, J. D., Hogan, K. A., Fitzgerald, V., Clark, R. W., Hopkins, B., Lepp, A. P., Mawbey, E., Smyth, R. V., Miller, L. E., Smith, J. A., & Nitsche, F. O. (2025). Recent benthic foraminifera communities offshore of Thwaites Glacier in the Amundsen Sea, Antarctica: Implications for interpretations of fossil assemblages. *Journal of Micropalaeontology*, 44(1), 79–105. <https://doi.org/10.5194/jm-44-79-2025>

2. Adams, T. L., Price, D., Godet, A., Neuman, J. , Davis, C., **Lehrmann, A. A.**, Lehrmann, D. J. (2025). Revisiting Bird's swimming sauropod: New insights on Manus-dominated Dinosaur Tracks from the Mayan Dude Ranch in Bandera, Texas. *Historical Biology*, 0(0), 1–15.  
<https://doi.org/10.1080/08912963.2025.2461068>
3. Świło, M., Majewski, W., Totten, R. L., **Lehrmann, A. A.**, and Anderson, J. B. (2024). Multi-proxy record of Late Holocene climate events and westerly winds in Maxwell Bay, South Shetland Islands, Antarctica, *Palaeogeography, Palaeoclimatology, Palaeoecology*, 654, 112450,  
<https://doi.org/10.1016/j.palaeo.2024.112450>
4. Clark, R. W., Wellner J.S., Hillenbrand, C.D., Totten R. L., Smith, J. A., Simkins, L., Larter, R.D., Hogan, K.A., Graham, A. C. G., Nitsche, F. O., **Lehrmann, A. A.**, Lepp, A. P., Kirkham, J. D., Fitzgerald, V. T., Garcia-Barrera, G., Ehrmann, W., Wacker, L., 2024, *PNAS*, Synchronous retreat of Thwaites and Pine Island glaciers in response to external forcings in the pre-satellite era,  
<https://doi.org/10.1073/pnas.2211711120>
5. Karplus, M. S., Young T.J., Bassis J. N., Anandakrishnan, S., Case, E.H., Crawford, A.J., Henry, L.R., Kingslake, J., **Lehrmann A.A.**, Pettit, E.C., Scambos, T.A., Sheffield, E.M., Smith, E.C., Turrin, M., and Wellner, J.S., 2022, Strategies to build a positive and inclusive Antarctic field work environment. *Annals of Glaciology*, 63(87-89), 125-131. doi:10.1017/aog.2023.32
6. Lepp, A.P.; Simkins, L.M.; Anderson, J.B.; Clark, R.W.; Wellner, J.S.; Hillenbrand, C.-D. Smith, J.A.; **Lehrmann, A.A.**; Totten, R.; Larter, R.D. ; Hogan, K.A. ; Nitsche, F.O.; Graham, A.G.C.; Wacker, L.. 2022 Sedimentary Signatures of Persistent Subglacial Meltwater Drainage From Thwaites Glacier, Antarctica. *Frontiers in Earth Science*, 10, 863200. 19
7. Totten, R.L., Fonseca, A.N., Wellner, J.S., Munoz, Y.P., Anderson, J.B., Tobin, T.S., and **Lehrmann, A.A.**, 2022, Oceanographic and climatic influences on Trooz Glacier, Antarctica during the Holocene: *Quaternary Science Reviews*, v. 276, p. 107279, doi:  
[10.1016/j.quascirev.2021.107279](https://doi.org/10.1016/j.quascirev.2021.107279).
8. Davis, C. III, Sheppard, C., **Lehrmann, A.A.** Adams, T., Godet, A., Price, D., Sharpe, J., Suarez, M., Altiner, D., Lehrmann, D. J., 2021, Sedimentology and geochemistry of a Lower Cretaceous dinosaur track site at the Mayan Ranch, Bandera, Texas: implications for environments and preservation of a sauropod manus dominant trackway: *South Texas Geological Society Bulletin*, v. 61, n. 6, p. 11-29.
9. Kernen, R., **Lehrmann, A. A.**, and Poe, P., 2021, Lithostratigraphy and chemostratigraphy of salt diapir sedimentary inclusions: Unraveling Ediacaran salt tectonics in the Flinders Ranges, South Australia: doi: 10.31223/x5x617.
10. Lehrmann, D.J., Droxler, A.W., Harris, P.M., Minzoni, M., Droxler, D.A., Hopson, H.H., Kelleher, C., Khanna, P., **Lehrmann, A.A.**, Lhemann, A., Mabry, G., Mercado, L., Proctor, J.M., Singh, P., et al., 2020, Controls on microbial and oolitic carbonate sedimentation and stratigraphic cyclicity within a mixed carbonate-siliciclastic system: Upper Cambrian Wilberns Formation, Llano Uplift, Mason County, Texas, USA: *The Depositional Record*, v. 6, doi: <https://doi.org/10.1002/dep2.108>
11. Totten, R.T., Parker, L.E., Andrus, C.F., Elliott, E.A., Lambert, W.J., Wallace, D.J., **Lehrmann, A.A.**, 2020, A 7000-year record of floods and ecological feedbacks in Weeks Bay, Alabama, USA: *Science of the Total Environment*, v. 734

12. **Lehrmann, A. A.**, Blake, E., Sun, K., Welch, B., Ray, C. J., Adams, T., Suarez, M. B., Godet, A., Ferrill, D. A., McGinnis, R. N., Lehrmann, D. J., 2019, Geochemistry and environmental analysis of a Lower Cretaceous dinosaur track site, Heritage Museum of the Texas Hill Country, Comal County, central Texas: South Texas Geological Society Bulletin, v. 60 p. 13-26

## TEACHING, SERVICE, AND OUTREACH

### *Teaching assistant, University of Houston*

Sequence Stratigraphy (primary instructor, Julia S. Wellner)	Fall 2025
Paleobiology (primary instructor, Rosalie Maddox)	Fall 2023
Natural Disasters (primary instructor, Daniel Hauptvogel)	Spring 2024

### *Guest Lecturer*

Paletotempestology and Field Methods	Summer 2021 and 2022
Dauphin Island Sea Lab (primary instructor, Emily Elliott)	

### *Training*

AHE 602: Problems in Higher Education; The American Professorate	Fall 2022
AHE 606: College and University Teaching	Fall 2020

### *Supervised undergraduate researchers, University of Houston, Texas*

1. **Ariam Delion** (6 semesters in lab; Geology major): Decoding Antarctic Hydrothermal Vents: A Grain Size Perspective
2. **Jamie Jetton** (4 semesters in lab; Geology major): Stratigraphy of the Larsen Ice Shelf Collapse

### *Supervised undergraduate researchers, University of Alabama, Tuscaloosa*

3. **Trudie Murphy** (1 semester in lab; Geoscience major): Foraminifera assemblages offshore B22 iceberg in the Amundsen Sea, Antarctica, and stable isotopes of the Amundsen Sea
4. **Ro Smyth** (2 semesters in lab; graduation Spring 2022; Environmental Science major, GIS minor): Spatial distribution of sedimentary facies in Mobile Bay, Alabama
5. **Will Farris** (2 semesters in lab; graduation Spring 2023; Biology Major): worked on Antarctic samples and explored interdisciplinary project ideas with biology Antarctic lab
6. **Emma Tegert** (4 semesters in lab; graduation Spring 2022; Geology major): Foraminifera and stable isotopes offshore Thwaites Glacier, Antarctica and Mobile Bay, Alabama
7. **Kolby Hite** (2 semesters in lab; graduated Spring 2021; Geography major, Geology minor): Stable isotopes and nutrients in Mobile Bay, Alabama
8. **Michael Comas** (3 semesters in lab; graduated Spring 2020; BS Environmental Science): The glacial history of the Abbot Ice Shelf, Amundsen Sea, Antarctica
9. **Savannah “Molly” Green** (1 semester in lab; expected graduation Summer 2021; Geology major, German minor): Foraminifera offshore Thwaites Glacier, Antarctica
10. **Chloe McCrary** (1 semester in lab; graduated Spring 2021; BS Environmental Science): Foraminifera offshore Thwaites Glacier, Antarctica

### *Peer reviews*

Manuscripts, 2022-present (n=2)

*Radiocarbon, Paleoceanography and Paleoclimatology*

### *Professional service*

University of Houston Department of Earth and Atmospheric Sciences Study Body Committee	
Geology Degree Programs Representative	2025-Present
Polar Science Early Career Community Office (PSECCO) board member	2024- 2025
International Thwaites Glacier Collaboration Early Career Liaison	2024- 2025

American Geophysical Union session convener	2023
Polar Impact co-organizer, network for racial and ethnic minorities in polar science	2020 – 2022
International Thwaites Glacier Collaboration Justice Equity Diversity Inclusion Early Career Researcher Representative	2020 – 2022
University of Alabama Unlearning Racism in Geology (URGE)	2020
University of Alabama Department of Geological Science Diversity Alliance Committee member	2020 – 2022
University of Alabama Tide Together peer mentor	2020 - 2021
Trinity University's Geology Club President Academic Outreach Chair	2017 –2018 2016 –2017
AAPG Student Chapter President, Trinity University Homeless Outreach Pursuing Education Hall, Trinity University Educational Outreach Coordinator, Trinity University Muslim Student Association Treasurer, Trinity University	2017 –2019 2017 –2018 2017 – 2018

### ***Outreach and education***

K-8 classroom outreach, Wingra School, Madison WI	November 2025
Teaching <a href="#">Course Dossier; lehrmannasmara.wixsite.com/coursedossier</a>	
International Thwaites Glacier Collaboration Antarctica Week	November 2019
University of Alabama Geokids	September 2019
Featured Scientist in <i>Ancient Life in Alabama: The Fossils, the Finders, and Why It Matters</i> book by Dr. William G. Deutsch	
Feature, <a href="#">Polar Impact</a>	August 2020
Interview on NBP20-02 research cruise, <a href="#">The Trinity Perspective magazine</a>	June 2020
Academic journey, <a href="#">PolarTREC</a>	March 2020,
Interview on children's workshop in Yunnan, China, <a href="#">Intenational 24H News YNIC</a>	June 2017

### **FELLOWSHIPS**

Graduate Tuition Fellowship, University of Houston Graduate School (\$19,203/yr)	2023-present
National Science Foundation Graduate Research Fellowship (\$147,000)	2020-2025
Graduate Council Fellowship, University of Alabama Graduate School (\$58,997/yr)	2019-2020
Hixon Environmental Studies Research Fellowship, Trinity University (\$3,000)	2018

### **GRANTS AND SCHOLARSHIPS**

Early Career Travel Grant to work with the University of Gothenburg (\$2000)	2025
Coastal and Estuarine Rising TIDES Recipient (\$800)	2021
David Worthington Named Grant, American Association of Petroleum Geologists (\$3,000)	2020
Lindahl Scholarship, University of Alabama Department of Geological Sciences (\$8,000)	2019
Sigma Gamma Epsilon Tarr Award (\$500)	2019
Gulf Coast Association of Geological Societies Research Grant (\$500)	2018
AAPG Geologists Foundation L. Austin Weeks Undergraduate Grant (\$500)	2018
South Central Geological Society Grant (\$500)	2017

### **HONORS AND RECOGNITION**

Outstanding Graduate Work in Geology Award (\$400) <i>University of Houston Department of Earth and Atmospheric Sciences</i>	2024, 2025
Student Research Day Oral Presentation Contest, First Place (\$600) <i>University of Houston Department of Earth and Atmospheric Sciences</i>	2024, 2025
Dobrin Lecture Poster Contest, Second Place (\$500) <i>University of Houston Department of Earth and Atmospheric Sciences</i>	2024
Department of Geological Sciences Service Award (\$500)	2020-2021

<i>University of Alabama Department of Geological Sciences</i>	and 2021-2022
Outstanding Senior Award (\$1,000)	2019
<i>Trinity University Department of Geosciences</i>	
GSA Sedimentary Geology Division and SEPM Student Poster Competition (\$1,000)	2018
Edward C. Roy, Jr. Outstanding Research in Geosciences Award (\$500)	2018
South Texas Geological Society Chair's Award (\$500)	2017
Honorable Mention: Best Undergraduate Research Poster   South Central GSA	2017

## RESEARCH and FIELD EXPERIENCE

<b>IODP Autonomous Underwater Vehicle Workshop</b>	Summer 2024
<b>IODP Glacial Sedimentation School (GLASS)</b>	July 2024
<b>paleoCAMP</b>	June 2024
<b>Paleoclimate Data Assimilation Workshop</b>	August 2022
<b>Lab Management</b>	August 2019 – August 2022
Micropaleontology and Sedimentology Lab, The University of Alabama Organized, trained, and mentored 16 undergraduate students to conduct lab work on core description, sample collection, microfossil processing, and stable isotope processing.	
<b>Honors Senior Thesis</b>	2018 – 2019
Trinity University, University of Alabama Collected, described, and analyzed an 8.39 m core from Mobile Bay, Alabama to create a Holocene record of large storm events and resulting harmful algal blooms. Used a handheld XRF and a laser particle analyzer every cm to create record. Collected and interpreted foraminifera samples from the upper 200 cm of the core.	
<b>Research Assistant</b>	July 2018
Oregon State University Assisted PhD candidate with field work and translating at Mount Sinabung, Indonesia.	
<b>Undergraduate Research Project</b>	2017
Trinity University, University of Texas at San Antonio, the Witte Museum Described stratigraphic section of dinosaur track bearing strata at the Heritage Museum of the Texas Hill Country and compared to two other localities of dinosaur track sites in the region using thin sections, polished slabs, XRF, and stable isotope measurements.	
<b>Field Geology in China: Study Abroad</b>	June 2017
Trinity University and Guizhou University Learned field methods while visiting world class geology sites in Southern China students and professors from Trinity University and Guizhou University.	
<b>Undergraduate Research Project</b>	2016
Trinity University, University of Texas El Paso, Texas A&M University Measured stratigraphic section and made detailed thin section descriptions to investigate geometry of subsalt minibasin	
<b>Research Assistant</b>	
University of Texas El Paso, Texas A&M University Assisted PhD candidate in the Flinders Ranges of Southern Australia with geologic mapping and stratigraphic section measurements.	July 2016

## INVITED TALKS

Polar Impact Webinar, Interagency Arctic Research Policy Committee (virtual)	February 2021
Race in West Antarctica, West Antarctic Ice Sheet Workshop (virtual)	October 2020
Lecture on research cruise NBP20-02, Scripps Institute for Oceanography (virtual)	April 2020

## PROFESSIONAL MEMBERSHIPS

American Geophysical Union | July 2022 - present  
Polar Impact | August 2020 - present  
Cushman Foundation | May 2020 - present  
Sigma Gamma Epsilon | May 2017 – present  
Geological Society of America | February 2016 - present  
American Association of Petroleum Geologists | January 2016 – present  
Association of Women in Geosciences | April 2017 – present  
Paleontological Society | September 2017 - present

## FORMER EMPLOYMENT

Tour Guide Intern, Trinity University Office of Admissions | 2018 – 2019  
Organized campus Tour Guide training and hiring, scheduled Tour Guides for daily visits and big visit programs  
Tour Guide Intern, Trinity University Office of Admissions Tour Guide | 2016 – 2019  
Gave walking tours to prospective students, families, and faculty. Wrote postcards to each visitor who attended a tour.

## CONFERENCE ABSTRACTS

**Lehrmann, A.A.**; Wellner, J.S., Wåhlin A., Graham A., Hillenbrand C.D.; Hogan, K.A., Tidally influenced interactions between a glacier base and the seafloor substrate recorded by channels and sedimentary ribs in a paleo-grounding zone offshore of the Dotson Ice Shelf (West Antarctica), SCAR International Symposium on Antarctic Earth Science, Punta Arenas, Chile, 2025

**Lehrmann, A.A.**; Wellner, J.S., Wåhlin A., Graham A., Hillenbrand C.D.; 2024, Newly discovered glacial grounding line and meltwater features offshore Dotson Ice Shelf from AUV high-resolution bathymetric data, *ITGC Annual Conference*, Cambridge, UK, Sept. 2024

Larter, R., Hogan, K., Graham, A., Nitsche, F., Wellner, J., Hillenbrand, C.-D., Totten, R., Smith, J., Miller, L., Anderson, J., Mawbey, E., Clark, R., Hopkins, R., **Lehrmann, A.**, Lepp, A., Marschalek, J., Garcia, S. M., and Taylor, L.: How much, how deposited, how old &ndash; what can we learn from sediments in Pine Island Bay?, *Copernicus Meetings*, <https://doi.org/10.5194/egusphere-egu24-19707>, 2024.

**Lehrmann, A.A.**; Totten, R. L.; Wellner, J.S.; Hillenbrand, C. D.; Smith, J.A.; Majewski, W.; Simkins, L.; Anderson, J. B.; Clark, R. W.; Mawbey, E.; Hopkins, B.; Lepp, A. P.; Comas, R. M.; Larter, R. D., Hogan, K.A.; Nitsche F.O.; Graham A.G.C, 2022, Using benthic microfaunal communities to constrain oceanographic influence on the stability of Thwaites Glacier, Antarctica, *West Antarctic Ice Sheet Conference*, Sept. 2022

Clark, R. W., Wellner, J.S., Hillenbrand, C.D., Totten, R.L., **Lehrmann, A.A.**, Fitzgerald V., Smith, J.A., Barnett, L., Comas, R. M., Garcia-Barrera, G., Hambrick, R., M., Hopkins, B., Kirkham, J., Lepp, A. P., Marschalek, J., Mawbey, E., Garcia, S.M., Anderson, J. B., Villafranca J., Graham, A. G. C., Hogan K., Larter R. D., Nitsche, F. O., Simkins, L. M., Wacker L., 2022. Grounding-Zone Retreat and Marine Sediment Transport from Holocene to Present along Thwaites Glacier in the Eastern Amundsen Sea (Invited), *American Geophysical Union*, Dec. 2022

Comas R.M., Wellner, J. S., Hillenbrand, C.D., Clark, R. W., Smith, J.A., Larter R. D., Graham, A. G. C., an K., Nitsche, F. O., Totten, R.L., Anderson, J. B., Simkins, L. M., **Lehrmann, A.A.**, Lepp, A. P., Mawbey, E., Hambrick, R., M., Hopkins, and Marschalek, J., Sedimentary Record of Pre-Satellite Retreat of Pine Island Glacier, Amundsen Sea, Antarctica, *American Geophysical Union*, Dec. 2022

Elliott, E. A., Monica, S., Bregy, J. C., Wallace, D. J., Friedman, J., Totten R. L., **Lehrmann A. A.**, and Tucker, C., Using Paleotempestology and Barrier Island Geomorphology to Characterize

Tropical Cyclone Activity During the Late Holocene Along the Northern Gulf Coast of the United States, *American Geophysical Union*, Dec. 2022

Lummus, M. M., Schneider, B., Stearns, L. A., **Lehrmann A.A.**, Creating a More Transparent Graduate School Application Process By Boosting Self-Efficacy Among GeoGradApp.com Workshop Participants (Invited), *American Geophysical Union*, Dec. 2022

Robertson, E. R., Walcott C. K., Gill., P.S., **Lehrmann, A.A.**, Dryak, M. C., Vurakaranam, A., Quinter, E., Polar Impact: Working to Illustrate, Support, and Promote Diversity in the Polar Community (Invited), *American Geophysical Union*, Dec. 2022

Totten, R.L., **Lehrmann, A.A.**, Elliott, E. A., Wallace, D. J., Monica, S., Past Floods recorded in Alabama estuaries: A record of extremes from the Mid Holocene to Common Era, *American Geophysical Union*, Dec. 2022

Wellner, J.S., Clark, R.W., **Lehrmann, A.A.**, Lepp, A.P., Hillenbrand, C.D., Totten, R.L., Simkins, L., Comas, R.M., Mawbey, E., Hopkins, B., Smith, J.A., Anderson, J.B., Hogan, K.A., Nitsche, F.O., Graham, A.G.C., Larter, R.D., 2022. Pre-satellite retreat of Thwaites and Pine Island glaciers: Recent results from sediment cores, *European Geosciences Union* 23-27 May 2022.

Minzoni, R.T., **Lehrmann, A.A.**, Wellner, J.S., Hillenbrand, C.-D., Smith, J.A., Simkins, L., Clark, R.W., Mawbey, E., Comas, R.M.\* Hopkins, B., Marshalek, J., Anderson, J.B., Larter, R.D., Graham, A., Hogan, K., Nitsche, F.O., 2021. Microfossil fingerprints of glacial stability: Using diatoms and foraminifera to reconstruct the history of Thwaites Glacier, West Antarctica, *American Geophysical Union Fall Meeting*, New Orleans, LA.

Elliott, E.A., **Lehrmann, A.A.**, Minzoni, R.T., Breyg, J., Wallace, D., Tucker, C., Pearl, J., 2021. Archives of the Extreme: Building multi-proxy records to characterize tropical cyclone activity and environmental impacts in the northern Gulf of Mexico, *American Geophysical Union Fall Meeting*, New Orleans, LA.

**Lehrmann, A.A.**, Minzoni, R.T., Wellner, J., Hillenbrand, C.-D., Smith, J.A., Simkins, L., Clark, R.W., Mawbey, E., Comas, R.M., Hopkins, B., Marshalek, J., Anderson, J.B., Larter, R., Graham, A., Hogan, K., Nitsche, F.O., 2021. Tracking Circumpolar Deep Water: Foraminifera as a proxy for oceanic conditions offshore Thwaites Glacier, Antarctica, *Twenty-Eighth Annual West Antarctic Ice Sheet Meeting*, Sterling, VA.

Clark, R.W., Wellner, J., Hillenbrand, C.-D., Minzoni, R.T., Smith, J.A., Simkins, L., Larter, R.D., Anderson, J.B., Comas, R.M., **Lehrmann, A.A.**, Lepp, A., Hambrick, M.C., Hogan, K., Graham, A., Nitsche, F.O., 2021. Evidence for simultaneous 20th century ice shelf changes of Thwaites and Pine Island glaciers, *Twenty-Eighth Annual West Antarctic Ice Sheet Meeting*, Sterling, VA.

Elliott, E.A., Breyg, J., Tucker, C., **Lehrmann, A.A.**, Minzoni, R.T., Wallace, D., Therrell, M.D., 2021. Recording Storms—Utilizing multiproxy records to identify tropical cyclone activity along the northern Gulf of Mexico, *Geological Society of America Annual Meeting*, Portland, OR.

Minzoni, R.T., **Lehrmann, A.A.**, Wallace, D., Elliott, E., Monica, S., 2021. Paleo-records of sea level, floods, and storms in the Mobile Bay and Weeks Bay estuaries: Implications for future change in Alabama, *Alabama Water Resources Conference*, Orange Beach, AL.

Elliott, E., Minzoni, R.T., Wallace, D., **Lehrmann, A.A.**, Dike, C., 2021. Contextualizing Extremes: New sediment archives and how they will help us understand the frequency of intense tropical cyclone activity along the MS-AL Coast, *Alabama Water Resources Conference*, Orange Beach, AL.

Lepp A., Simkins L., Minzoni R., Wellner J., Clark R., Fitzgerald V., **Lehrmann A.**, Hillenbrand C.D., Smith J., Anderson J., Larter R., Graham A., Hogan K., Nitsche F., 2020, Persistent Meltwater Discharge from Thwaites Glacier Recorded in Offshore Sediments, *American Geophysical Union*

Wellner, J. S., Clark, R., Hillenbrand, C. D., Minzoni, R. T. , Larter, R., Anderson, J. B., Graham, A., Hogan, K., Nitsche, F., Simkins, L., Smith, J., Fitzgerald, V. T., **Lehrmann, A.**, Lepp, A., 2020 Thwaites Glacier, Antarctica, Offshore Research: Initial sedimentary records from 2019 and 2020 cruises (Invited Presentation): Geological Soceity of America, doi: 10.1130/abs/2020AM-359371

- Gill, P., Lehrmann, A. A., Lepp, A., Ash, J., 2020, Polar Impact (Minorities in Polar Research): Changing the face of Polar Research: Geological Society of America
- Larter, R., Wellner, J., Graham, A., Hillenbrand, C.-D., Hogan, K., Nitsche, F., Smith, J., Boehme, L., Barham, M., Anderson, J., Minzoni, R., Simkins, L., Heywood, K., Pettit, E., Bortolo, G., Clark, R., Munevar, S., Hopkins, R., Lehrmann, A., Lepp, A., Marschalek, J., Mawbey, E., Taylor, T., 2020, Initial results from International Thwaites Glacier Collaboration cruise NBP20-02, doi: 10.5194/egusphere-egu2020-17529
- Wellner, J.S., Larter, R., Graham, A., Hillenbrand, C.-D., Hogan, K., Minzoni, R., Nitsche, F., Smith, J., Anderson, J., Simkins, L., Clark, R., Fitzgerald, V., Hopkins, R., Lehrmann, A., Lepp, A., Marschalek, J., Mawbey, E., Kirkham, J., Munevar, S., Taylor, L., 2020, Initial Geologic Results from Thwaites Glacier Offshore Research (THOR) 2019 and 2020 Field Seasons, Scientific Committee on Antarctic Research
- Elliott, E.A., Minzoni, R.T., Wallace, D.J., Waters, M., Davis, L., Lehrmann, A., Parker, L., and Dike, C., 2019, Legacy of the Storm: Paleo-perspective on tropical cyclone activity along the northern Gulf of Mexico region and associated impacts on ecosystem health: American Geophysical Union Abstracts with Programs
- Lehrmann, A., Minzoni, R.T., Wallace, D.J., Surpless, K., Parker, L., and Sobrado, J., 2019, A new record of Holocene paleo-floods in Mobile Bay, AL from grain size, elemental, and foraminifer analysis: Geological Society of America Abstracts with Programs, v. 51, doi: 10.1130/abs/2019AM-336436.
- Adams, T. L., Lehrmann, D., Deschner, E., Lehrmann, A., and Blake, E., 2019, Dinosaur Tracks as an Educational Resource: Society of Vertebrate Paleontology Programs and Abstracts.
- Lehrmann, A., Minzoni, R., Wallace, D., and Surpless, K. Holocene frequency of paleo-floods in Mobile Bay from sediment grain size and elemental analyses: implications for recent estuarine eutrophication events: Geological Society of America Abstracts with Programs, v. 50, doi: 10.1130/abs/2018am-319955.
- Parker L., Minzoni R.T., Wallace D.J., Lehrmann A., Sobrado J., 2018, Eutrophication in the northern Gulf of Mexico: an evaluation of long-term environmental change and human impacts on coastal estuaries: Geological Society of America Abstracts with Programs. Vol. 50, No. 6, doi: 10.1130/abs/2018AM-324177
- Lehrmann, A. A., Blake, E., Sun, K., Welch, B., Ray, C. J., Suarez, M.B., Godet, A., Adams, T., Lehrmann, D., 2017, Geochemistry and environmental analysis of a Lower Cretaceous dinosaur track site, Heritage Museum of the Texas Hill Country, Comal county, central Texas: Geological Society of America Abstracts with Programs. Vol. 49, No. 6 doi: 10.1130/abs/2017AM-300061.
- Blake E., Lehrmann, A. A., Welch, B., Ray, C. J., Sun, K., Suarez, M. N., Godet., Adams, T., Lehrmann, D., 2017, Sedimentology and stratigraphy of a Lower Cretaceous dinosaur track site, Heritage Museum of the Texas Hill Country, Comal county, central Texas: Geological Society of America Abstracts with Programs. Vol. 49, No. 6 doi: 10.1130/abs/2017AM-300085.
- Lehrmann, A., Kernen, R., Giles, S., and Giles K., 2017, Timing of allochthonous salt emplacement of the Neoproterozoic (Ediacaran) Patawarta salt sheet, Flinders Ranges, south Australia: Evidence from the subsalt minibasin: Geological Society of America Abstracts with Programs. Vol. 49, No. 1, doi: 10.1130/abs/2017SC-289392.
- Giles S., Kernen, R., Lehrmann, A., Giles, K., 2017, Evolution of a suprasalt minibasin: Neoproterozoic (Ediacaran) Patawarta salt sheet, Flinders Ranges, South Australia: Geological Society of America Abstracts with Programs. Vol. 49, No. 1 doi: 10.1130/abs/2017SC-289435
- Kernen R. A., Giles K. A., Fischer, M. P., Giles S. , Lehrmann, A., Rowan M. G., 2017, Evaluating exploration potential of suture zones or encased minibasins using an outcrop example from the Neoproterozoic Patawarta salt canopy, central Flinders Ranges, south Australia: American Association of Petroleum Geologists, National Meeting, Houston, TX.