Department of Geology Awards

April 30, 2021

University of Georgia
Geology Department Administration

Department Head
Dr. Paul A. Schroeder

Associate Department Head
Dr. Adam Milewski

Undergraduate Advisors
Dr. Doug Crowe
Dr. Rob Hawman

Graduate Coordinators
Dr. Steve Holland
Dr. Adam Milewski

Franklin College Faculty Senator
Dr. Steve Holland

Geology Alumni Advisory Board

Mr. Grant Eager, Chair
US Vulcan Materials Co.

Ms. Charlotte Abrams
Nuclear Regulatory Commission

Mr. Jeff Blackmon
Project Manager, Newmont Gold

Mr. Skip Forsthoff
Consultant Geologist Chevron

Mr. Ken Gillon
Consultant

Mr. Alex Glover
Consultant

Mr. Frank Lieth
US Vulcan Materials Co.

Mr. Ed Moritz
President, Gustavson Associates

Mr. Daven Mashburn
Senior Exploration Manager, Newmont Gold

Dr. Wes Myers
Los Alamos National Laboratory

Mr. Jim Redwine
Senior Managing Scientist
Anchor QEA, LLC

Dr. James Saunders
Professor of Geology, Auburn University

Mr. Jeff Shellebarger
Retired, Chevron NA Exploration and Development
Undergraduate Accolades

B.S. / A.B. Recipients
Fall 2020 – Spring 2021 – Summer 2021

Steven Bishop
Cole Eck
Kirsten Farmer
Caitlyn Holmes
Frank Holmes
Hampton Hotard
Katelyn LaPine
Kelsey Luke
Chase Maughon
Christina Milcheck
Jessica Mitchell
Raquel Oliva
Sarah Olmstead
Emma Patterson
Savannah Rathbun

External Awards

American Institute of Professional Geologists Georgia Section: Student Scholarship 2021

Caroline Hiot

Senior Theses/Research and/or CURO

1. Kristen Farmer, Population and size distribution of Cibicides antarcticus on Adamussium colbecki within Explorers Cove, Antarctica (Walker)
2. Caitlyn L. Holmes  Sample processing for cosmogenic nuclide erosion rates at the Calhoun Critical Zone Observatory (Schroeder and Darling)
3. Hampton Hotard, Shark teeth forensics (Walker)
4. Catherine Labriola, A Preliminary Test of the Mesozoic Marine Revolution Hypothesis Using Repair Scars on Cretaceous Oysters, Southern Atlantic Gulf and Coastal Plain (Walker)
5. Katelyn E. LaPine, An Inventory and Assessment of Banks Lake National Wildlife Refuge (Milewski)
6. **Raquel Oliva.** An Inventory and Assessment of Banks Lake National Wildlife Refuge (Milewski)

7. **Emma D. Patterson:** Sample processing for cosmogenic nuclide erosion rates at the Calhoun Critical Zone Observatory (Schroeder and Darling)

**Presentations at Meetings**


**Undergraduate Department Awards**

**Outstanding Field School Students 2021**

Field camp cancelled due to pandemic

**Outstanding Undergraduate Students 2020-2021**

Cole Eck
Kelsey Luke
Sarah Olmstead
Graduate Student Accolades

2021 Spring Graduates

Ph.D.

1. Laura Fackrell, Applications of Critical Zone Science in the Exploration of Mars, Ph.D., Advisor: Schroeder

M.S.

2. Laura Dupont, A multi-proxy stalagmite record of paleoenvironmental change in equatorial Africa during the African Humid Period. M.S., advised by Railsback
3. Peter Steiner, Nutrient Cycling Of Potassium In The Critical Zone During Periods Of Changing Land Use. M.S., advised by Schroeder
4. Cleveland Tarp, Hydrograph analysis techniques for ephemeral and intermittent transmission loss modeling. M.S., advised by Milewski
5. Işık Su Yazıcı, Using plan-form impact crater shapes to investigate tectonic patterns on Mercury. M.S., advised by Klimczak

2020 Summer and Fall Graduates

Ph.D.

1. Rachel Rotz, Geomorphic-geologic indicators of zones of hydrologic flux in drylands on Earth and Mars, Ph.D., advised by Adam Milewski.

M.S.

**Journal Publications or Technical Reports**


**Presentations at Professional Meetings**

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2. **Cronin, K., Walker, S.E., Gillikin, D.P. and Bowser, S.S. 2020**

3. **LaBriola, C., Walker, S.E., 2020**

4. **Farmer, K., Walker, S.E., and Bowser, S.S., 2020.**

5. **Laura E. Hanawalt, Michael P. Cuiik, Rebeckah S. Hufstetler, and Robert B. Hawman (2021).**
   Structure of the lithosphere across the Appalachian Orogen: Reflection profiling using earthquakes (abstract), Southeastern Section of the Geological Society of America, Auburn University, April 1, 2021.

6. **Cheng H. C. J., Klimczak, C., and Fassett C. I.: Age relationships of large-scale troughs and impact basins on Vesta. 52nd Lunar and Planetary Science Conference, 2021, #1014, virtual meeting.**


10. **Crumpacker, William 2021**
    Removal Of Boron And Bromide From Coal Combustion Residual Wastewater Using Chemical Precipitation And Filtration. 2021 Georgia Groundwater Resources Conference.


12. **Fackrell, L.E. 2020**
    Goldschmidt Annual Meeting Oral Presentation Potential habitability of Mars based on experimentation and modeling of regolith simulants.

13. **Fackrell, L.E. 2020 ASA, CSSA, and SSSA Annual Meeting Oral Presentation- Growing Plants on Mars- Potential and Limitations of Martian Soil as a Plant Growth Medium Based on Results from Analogue Studies**
14. **Fackrell, L.E.** AGU 2020 Conference Poster Presentation- Phosphorous Availability in Mars Soil Analogue and Implications for Potential Habitability


**External Funding/Recognitions**


2. **Laura E. Fackrell** 2020 Sigma Xi Grant. Martian regolith as an *in-situ* resource: The challenge of growing plants on Mars.

3. **David F. Richards, IV** 2020 Geological Society of America Graduate Student Research Grant.

4. **Cleveland Tarp** 2020 Geological Society of America Graduate Student Research Grant.

5. **Max Deckman** 2021 Paleontology Society Student Research Grant

**Internal UGA Geology Funding**

**Miriam Watts-Wheeler Research Scholarships**

Fall 2020 • Spring 2021

**Sean Price:** The identification of textural geochemical effects of melt percolation within both continental and oceanic ultramafic bodies

**Sam Oxhorn:** Western Aleutian volcanism: along-strike magmatic series transitions and differentiation of Kiska magmas

**Alex Edwards:** Elemental and lead isotope data analysis of bronze Colonial bells from Spanish Colonization Era
Miriam Watts-Wheeler Travel Scholarships
Fall 2020 • Spring 2021


Laura Dupont: AGU Annual Conference, A Multi-Proxy Stalagmite Record of Paleoenvironmental Change in Equatorial Africa during the African Humid Period

Gilles and Bernadette Allard Geology Award 2020-2021

Elliot Blake: Using sequence stratigraphy to predict vertebrate trackways in coastal settings: Jurassic Gypsum Spring and Sundance Formations, Bighorn Basin, Wyoming, U.S.A.

Joseph W. Berg Scholarship in Geophysics Fund - Spring 2021

Laura Hanawalt
Michael Cuilik
Rebeckah Hufstetler

Geology Department Faculty Meeting Representative 2020-2021

Hiu Ching Jupiter Cheng

Outstanding Teaching Assistant Award 2020-2021

Samantha Khatri
David F. Richards, IV

Outstanding Ph.D. Student of the Year 2020-2021

Laura Fackrell

Outstanding M.S. Students of the Year 2020-2021

Huseyin Demir
Laura Dupont
Alumni Accolades

Outstanding Young Alumni Award
Peter Lanzarone. M.S. 2011

Distinguished Alumni Award
Margaret Frasier B.S. 1998

Elected to National Academy of Sciences
Harry Y. “Hap” McSween UGA - M.S. Geology

*Special thanks to Johnie Tucker and Debbie Daniel from the Franklin College Development Office for helping us keep touch with our Geology alumni.

Faculty Accolades

Retirements
Dr. Sue Goldstein
Dr. Alberto Patino-Douce
Dr. Jim Wright

Fund Raising & Alumni Engagement
Dr. Doug Crowe
Dr. Valentine Nzengung

Professor of the Year
Dr. Adam Milewski

Teacher of the Year
Dr. Rob Hawman
Shellebarger Professorship

Dr. Sally E. Walker

USG Chancellor Learning Scholar, University System of Georgia

Dr. Adam Milewski

Promotion

Dr. Adam Milewski - Professor

History of Geology at UGA

Dr. Bruce Railsback

https://geology.uga.edu/history-university-georgia-department-geology

New/Renewed Grants

Dr. Adam Milewski and Dr. Charlotte Garing: Collaborative Research (IRES Track I): A Multi-Faceted Approach for Understanding Hydrologic Controls on Transmission Losses in Dryland Environments, National Science Foundation, (2020-2023)

Dr. Adam Milewski: UAV-based Analysis of Coastal Salt Marshes, National Park Service, (2020-2021)

Dr. Adam Milewski: Building a Bridge to Planetary Science Research – Investigating Fluvial & Aeolian Interactions in Hyper-Arid Deserts, UGA Franklin College, (2020-2022)

Dr. Erv Garrison: NSF grant to assess the potential of scour nuclei for the discovery of submerged prehistoric archeological sites on the inner- to mid-continental shelf in the Georgia bight (2020-2023)


Dr. Sally Walker, Collaborative Research: The Antarctic Scallop as Key to Paleoenvironments and Sea Ice Conditions: Understanding the Modern to Predict the Past, NSF Office of Polar Programs (2018–2021)

Dr. Rob Hawman: Vp/Vs Structure of the Crust and Reflection Fabric of the Upper Mantle beneath the Southern Appalachians using Teleseismic and Global Phases (2018-2021)

Dr. Mattia Pistone: Petrophysics of the Melt Connectivity Transition: Petrological, Rheological, and Seismic Characterisation of the Continental Moho (Swiss NSF Transfer) (2020-2021)
Staff Accolades

A Group of High Performing Individuals

Rachel Ashton
Ashley Arnold
Catherine Moore
Julie Cox
Michael Lewis*
Chris Fleisher*

Hourly workers

Savannah Rathbun
Sarah Olmstead
Caroline Hiott

*Retired! Thanks for the years of dedication to the Geology Department

Recognition of Geology Club

2020-2021 Officers

Kelsey Luke - President
Sarah Olmstead- Vice President
Savannah Rathbun- Social Media Coordinator
Emma Patterson - Treasurer
Caroline Hiott and Steffan Becker - Recruitment Officers