Department of Geology Awards

April 21, 2023

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 Coordinator
Dr. Steve Holland

Franklin College Faculty Senator
Dr. Steve Holland

Office Manager & Academic Program Administrator
Ashley Arnold

Administrative Assistant II
Shay Nash
Geology Alumni Advisory Board

Mr. Grant Eager, Chair
Director of Tech Services, US Vulcan Materials Co.

Ms. Charlotte Abrams
Branch Chief, Nuclear Regulatory Commission

Ms. Gigi Beaulieu
Senior Tech Manager, WSP, USA

Mr. Jeff Blackmon
Project Manager, Newmont Gold

Mr. Skip Forsthoff
Consultant Geologist, Chevron

Mr. Ken Gillon
Consultant, Appalachian Landslide Consultants

Mr. Alex Glover
Director of Mining, Active Minerals International, LLC

Mr. Zach Hall
Director, Environ Science, Duke Energy

Mr. John Hayden
Retired, Consultant

Mr. Frank Lieth
US Vulcan Materials Co.

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Mr. Daven Mashburn  
Senior Exploration Manager, Newmont Gold

Dr. Vince Matthews  
Retired, Director of the Colorado Geological Survey

Mr. Ed Moritz  
President, Gustavson Associates

Dr. Wes Myers  
Retired, Los Alamos National Laboratory

Dr. Horry Parker  
Lead Field Project Rep., Black & Veatch

Ms. Kristen Woods  
Mine Planner & Geologist, The Chemours Company

Dr. James Saunders  
Professor of Geology, Auburn University

Mr. Jeff Shellebarger  
Retired, Chevron NA Exploration and Development

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Undergraduate Accolades

B.S. / A.B. Recipients
Fall 2022 – Spring 2023 – Summer 2023

Margaret Burdell
Quentin Campbell
Grace Cantele
Evan Eastabrooks
Jeremiah Funke
Davis Hardin
Raine Morrison
Natalie Moss
Ari Schulman
Oskar Zuchner

External Awards

American Institute of Professional Geologists Georgia Section Scholarship

Davis Hardin

American Institute of Professional Geologists National Scholarship

Grace Cantele

Marshall Scholarship

Natalie Moss
Senior Theses/Research and/or CURO


Grace E. Cantele. Determining mercury concentration in minerals, rocks, and soils at Mt Etna, Italy, advised by Mattia Pistone. CURO symposium.

Sophie Forbes. Shifting Patterns of Environmental Use on Ossabaw Island, Georgia, USA: A Sclerochronological Time Sequence, advised by Victor Thompson, CURO symposium.

Jeremiah Funke. Magmatic sulphide systems in the deep crust of the Ivrea-Verbano Zone, Italy, advised by Mattia Pistone. CURO symposium.

Davis Hardin. Crater Saturation of Asteroid 4 Vesta, advised by Christian Klimczak. CURO symposium.


Natalie Moss. Warfare at Kaman-Kalehoyuk, Turkey: Isotopic Analysis of Burned Remains-Preliminary Data and Future Directions, advised by Suzanne Pilaar Birch. CURO symposium.


**Internal UGA Undergraduate Awards**

**CURO Research Award**

Jeremiah Funke-Summer 2022
Oskar Zuchner-Fall 2022
Grace Cantele-Spring 2023

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Undergraduate Department Awards

Outstanding Undergraduate Students 2022-2023

Margaret Burdell
Davis Hardin
Natalie Moss
Oskar Zuchner

Outstanding Field Camp Student 2022

Jeremiah Funke - Summer 2022

Graduate Student Accolades
2022 Summer and Fall Graduates

M.S.

Elliot Blake. Controls on the occurrence of vertebrate tracks in the Jurassic Gypsum Spring and Sundance Formations, Bighorn Basin, U.S.A. M.S., advised by Steven Holland.

Michael Cuilik. High-resolution mapping of lithospheric discontinuities between the eastern continental margin and continental interior of the North American continent using PKIKP as a virtual seismic source. M.S., advised by Rob Hawman.

Parker Whitley. Barrier Island’s Shallow Coastal Aquifer response to Storms and Tidal Fluctuations: Case of Sapelo Island. M.S., advised by Charlotte Garing.

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2023 Spring Graduates

M.S.

**Holden Aronson.** Determining if and how land use disturbance affects long-term soil erosion rates in the broad basin of the southern Appalachian Piedmont, using *in situ*-produced $^{10}$Be cosmogenic nuclide isotopes in fluvial quartz grains. M.S., advised by Paul Schroeder.

**Sydney Briggs.** Investigating the Topographic Undulations Along Lava Channels on Venus. M.S., advised by Christian Klimczak.


Ph.D.


Journal Publications or Technical Reports


Milewski, A., B. Gregory, and D.F. Richards. 2022. Develop a method to inventory and monitor the spatial extent of salt marsh habitats at coastal park areas in the southeastern US using remote sensing data. South Atlantic Coast Inventory and Monitoring Network. National Park Service


Presentations at Professional Meetings


Beatty, W.L., N.E. Ruhland, S.E. Davitt, **S.I. Khatri**, and A.J. Schroeder, 2022, Megaflora fossils from a dinosaur excavation site in the Late Cretaceous Hell Creek Formation of Western North Dakota. Geological Society of America Abstracts with Programs, vol. 54(5), paper 63-10

**Bonham, A.E.**, and S.E. Pilaar Birch. 2002. Seasonal variation of $d^{18}$O$_{carb}$ in *O. virginianus* tooth enamel at the onset of the Little Ice Age in Georgia: perspectives from two late pre-contact sites. American Geophysical Union Fall Meeting, abstract 1199694


Cheng, H.C.J., 2022. Simulated structural geology fieldwork in classrooms to bridge the gap between knowledge and the field. American Geophysical Union Fall Meeting, abstract 1064954


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**Zowam, F.**, A.M. Milewski, and **D.F. Richards**. 2022. A satellite-based approach for quantifying terrestrial water cycle intensity (WCI) and evaluating its impact on groundwater recharge potential across the contiguous USA. American Geophysical Union Fall Meeting, abstract 1176186

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External Funding

Oluwaseun Adeyemi: NE/SE GSA travel grant, Clay Minerals Society travel grant

Holden Aronson: GSA travel grant

Alexandra Bonham: GSA Graduate Student Research Grant, GSA travel grant

Jupiter Cheng: NASA Small Bodies Assessment Group travel grant, AGU travel grant

Marjie Cone: SEPM Student Research Grant, GSA Graduate Student Research Grant, GSA Shlemon Meeting Award, GSA student travel grant

Lea Davidson: GSA Graduate Student Research Grant, AWG Takken Travel Grant

Yonesha Donaldson: GSA travel grant

Samantha Khatri: SEPM Student Research Grant

Stephen Loveless: NASA JPL travel grant for Mars InSight Seers

Cade Orchard: SEPM Student Travel Grant, GSA Shlemon Meeting Award, SEPM Student Research Grant

David Richards: GSA Graduate Student Research Grant, GSA travel grant
Recognitions

**Jupiter Cheng:** Senior Student Advisory Member, Geological Society of America Planetary Geology Division

**Stephen Loveless:** Accepted as participant to NASA's Mars InSight mission

Internal UGA Geology Funding

**Miriam Watts-Wheeler Research Scholarships**

**Fall 2022 • Spring 2023**

Tracy Chukwuma
Carly Daniel
Lea Davidson
Kaitlyn Hulsey
Samantha Khatri
Sean Oakey
Olajide Oladipo
Cade Orchard
Miriam Watts-Wheeler Travel Scholarships
Fall 2022 • Spring 2023

Oluwaseun Adeyemi
Holden Aronson
Alexandra Bonham
Sydney Briggs
Jupiter Cheng
Marjie Cone
Carly Daniel
Lea Davidson
Yannie Donaldson
Stevie Loveless
Cade Orchard
David Richards
Fabian Zowam

Gilles and Bernadette Allard Geology Award 2022-2023

Abubakar Aliyu

Geology Department Faculty Meeting Representative
2022-2023

Lea Davidson
Outstanding Teaching Assistant Award
2022-2023

Yannie Donaldson
Laura Hanawalt

Outstanding Graduate Students of the Year 2022-2023

Holden Aronson, M.S.
Jupiter Cheng, Ph.D.

A.A.P.G. International Barrel Award Team *

Oluwaseun Adeyemi
Abubakar Aliyu

Holden Aronson
Grace Cantele
Fabian Zowam

***Special thanks to:

Peter Lanzarone: BP
Devon Verellen: Chevron

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Alumni Accolades

Outstanding Young Alumni Award

Pedro Monarrez, Ph.D. 2019

Distinguished Alumni Award

Zach Hall, M.S. 1997

New Endowments

John and Barbara Dowd Professorship in Hydrology Fund

Doug Dvoracek IFP Scholarship Fund

Skip and Cris Forsthoff Undergraduate Research and Field School Fund

David Emory Stooksbury Endowed Scholarship in Geology

Paul and Loretha Thiele Graduate Fellowship Fund
Faculty Accolades

Professor of the Year
Dr. Rob Hawman

Teacher of the Year
Dr. Doug Crowe

Shellebarger Professorship
Dr. Sally E. Walker

First-Year Odyssey Teaching Award
Dr. Mattia Pistone

M.G. Michael Award
Dr. Mattia Pistone

Lilly Teaching Fellowship
Dr. Mattia Pistone
New/Renewed Faculty Grants


Dr. Steve Holland: PI. Collaborative research: conference: stratigraphic paleobiology field conference. National Science Foundation.


Dr. Mattia Pistone: PI. DE BELLO VULCANICO or The Volcanic War: Forecasting Gas Release versus Retention in Magmas prior to Volcanic Eruptions, UGA Sarah H. Moss Fellowship.

Dr. Mattia Pistone: PI. DIVE: Drilling the Ivrea-Verbano zonE – Phase 1: Drilling into the pre-Permian mafic and felsic lower crust, International Continental Drilling Program (number 04-2020).

Dr. Mattia Pistone: Co-PI. Tracking Mercury Pollution Sources: Developing an Analytical Method for Measuring Stable Mercury Isotopes in Environmental and Human Biological Samples, Teaming for Interdisciplinary Research Pre-Seed Program, The University of Georgia, US.
**Dr. Mattia Pistone:** P.I. Flow or blow? Understanding the physics of gas accumulation leading to explosive volcanic eruptions through experiential learning in lab and class with a gas pycnometer, UGA Learning Technologies Grant, Role:

**Dr. Paul A. Schroeder:** PI. Travel support for students and early career scientists to The Clay Minerals Society Conference. National Science Foundation., EAS-2224821.

**Dr. Paul A. Schroeder:** PI. Mineralogy and cation exchange capacity of F-Area aquifer., Battelle Savannah River Alliance, LLC.

**Dr. Sally E. Walker,** PI. Collaborative Research: The Antarctic Scallop as Key to Paleoenvironments and Sea-Ice Conditions: Understanding the Modern to Predict the Past. National Science Foundation.
Staff Accolades

A Group of High Performing Individuals

Ashley Arnold
Julie Cox
Michael Durham
Shay Nash

Recognized as UGA’s Top 100 Student Employees of the Year

Roman Dzikowski
Maddie Hurd

Recognition of Geology Club

2022-2023 Officers

Grace Cantele - President
Jay Mrazek - Vice President
Natalie Moss - Social Media Coordinator
Oskar Zuchner - Treasurer
Sierra Wermuth - Outreach Coordinator
Roman Dzikowski - Trip Coordinator

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