

Sydney A. Briggs

sydneyabriggs7@gmail.com | 530.301.5577

EDUCATION

Ph.D. Geology: Department of Geology, University of Georgia, Athens, GA, USA. (Current)

M.S. Geology: Department of Geology, University of Georgia, Athens, GA, USA. GPA: 4.0/4.0 (May 2023)

B.S. Geology: Department of Geological Sciences, University of Alabama, Tuscaloosa, AL, USA. GPA: 4.0/4.0
Minors: Math, Art (July 2021)

GRE

Verbal Reasoning: 160, 85th Percentile

Quantitative Reasoning: 161, 75th Percentile

Analytical Writing: 4.5, 80th Percentile

EXPERIENCE

Graduate Research Assistant, August 2021 – Current

Department of Geology, University of Georgia - Athens, GA

Advisor: Dr. Christian Klimczak

- Recipient of Chevron Research Assistantship
- Trained on ArcGIS for Magellan SAR data interpretation of Venus' surface
- Created a global map of Venus canali (lava flows) with crustal thickness and dynamic topography comparison for better understanding of the surface deformation observed on Venus

Undergraduate Research Assistant, September 2018 – February 2020

Department of Geological Sciences, The University of Alabama - Tuscaloosa, AL

Supervisor: Dr. Julia Cartwright

- Established knowledge of meteorites and asteroids
- Earned funding from the Department of Geological Sciences for project
- Trained on saw, polisher, and sample maintenance regarding Fourier Transform Infrared Spectroscopy

WORK EXPERIENCE

Teaching Assistant, January 2022 – June 2022

Department of Geology, University of Georgia - Athens, GA

- Collaborating with lead professors and other TAs to design the undergraduate field course
- Organizing materials and equipment for 15-20 students for six weeks in Colorado and Utah
- Monitoring students in field and at camp to increase safety and comprehension of field techniques
- Maintained a strict budget for meals, equipment repair and replacement, and travel expenses

Lab Assistant, May 2018 – November 2018

Department of Geological Sciences, The University of Alabama - Tuscaloosa, AL

Supervisor: Dr. Rona Donahoe

- Recorded data from experimental procedures
- Learned lab technique regarding acid bathes, clay floats, and glass disks
- Entrusted with irreplaceable sample and completed analysis without exhausting supply

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Lab Monitor, August 2017 - Present

Mathematics Technology Learning Center, The University of Alabama - Tuscaloosa, AL

- Ensure testing integrity for exams
- Provide customer services for front desk
- Monitor lab and computer usage

PRESENTATIONS/PUBLICATIONS

Briggs, S.A., Klimczak, C., & James, P. B. *Topographic Changes on the Surface of Venus Observed Along Lava Channels*. Abstract #1620, 54th Lunar and Planetary Science Conference (2023).

Briggs, S.A., Cartwright, J.A., Hauser, A. Law, K-A. *Petrological Investigations and Fourier Transform Infrared Spectroscopy of Achondrite Meteorites*. URSCA. (2018).

Briggs, S.A., Cartwright, J.A., Hauser, A., Law, K-A. *Understanding Compositions of Planetary Bodies Through Combined Petrography and Non-Destructive Raman Studies of Meteorites*, Abstract #2970, Lunar Planetary Science Conference (2020).

SKILLS

Software: Origin 2019, Microsoft Office (Word, Excel), Adobe Suite (Illustrator, Photoshop, Premiere), ESRI (ArcMap 10.8, ArcCatalog)

Equipment: Fourier Transform Infrared Spectrometer, X-Ray Florescence, X-Ray Diffraction, petrographic microscope

Technical: inverse theory modeling, signal processing, geological mapping (e.g. stratigraphic columns, cross sections), clay floats, glass disk creation, rock preparation (saw, polish)

HONORS / AWARDS

DGS Photo Contest Third Place Student Award (2020)

President's List: University of Alabama (Fall 2017, Fall 2019, Spring 2020)

Dean's List: University of Alabama (Spring 2018 - Spring 2019)

AFFILIATIONS

Kappa Alpha Theta (2017- Present)

Phi Eta Sigma National Honors Society (2017 – Present)

Sigma Gamma Epsilon National Honors Society (2017 –Present)

Alpha Lambda Delta National Honors Society (2018 – Present)

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VOLUNTEER & COMMUNITY OUTREACH

Tuscaloosa Arboretum; Vacation Bible School Team Leader (2015-Present); Hurricane Michael Drive (2017); Court Appointed Special Advocates (CASA) Fundraiser (2017-2021); Theta Day of Service (2017-2021); Tutor in Mathematics (2018-2021); Mass and Meal Co-Director (2019-2020); Bama Catholic SEARCH team member (2019-2021)

EXTRA-CURRICULAR ACTIVITIES

Alabama Scuba Club (2017-2021); Bama Catholic (2017-2021); Crimson Tide Ballroom Dancing Club Board Member (2017-2019); Kappa Alpha Theta Initiation Committee (2019); Kappa Alpha Theta Panhellenic Sorority Service Committee (2018-2019); Sigma Gamma Epsilon National Honors Society Volunteer Director (2018-2021); Sigma Gamma Epsilon Vice President (2019); University of Alabama Ballroom Competition Team (2018-2019); Sigma Gamma Epsilon Treasurer (2020-2021)