

Autumn K. Arnold

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EDUCATION

2019-2023 **Bachelor of Science in Geology**

Georgia Southern University, Statesboro, Georgia

GPA: 3.53

PROFESSIONAL EXPERIENCES

2021-2023 **Geology Tutor**, Georgia Southern University

Tutored students over various portions of introductory geologic material including but not limited to: identification of minerals, rocks, and ores; reading and interpreting topographic maps; understanding and interpreting structural geology, geologic maps, and time scales; solving math problems related to ore deposits, topographic maps, and hydrogeology; discussing environmental impacts of natural and manmade disasters. Created study guides for tutees in preparation for exams and developed various tutoring styles to accommodate different types of learning styles seen in students.

2023 **Introduction to Geology Teaching Assistant**, Georgia Southern University

Created lesson plans via PowerPoint for rocks and minerals, topographic maps, and structural geology, taught labs using my lesson plans; attended labs, answered student questions, and proctored exams; created and inputted post-lab quizzes; graded exams.

2022 **Environmental Geology Teaching Assistant**, Georgia Southern University

Created lesson plans regarding topographic maps; taught lab using my lesson plans; attended labs, answered student questions, and proctored exams.

POSTERS AND PRESENTATIONS

1. Introduction to Research Presentation: *Petrogenetic link to textural variation of carbonatites: Alnö, Sweden and Gunnison, Colorado*
2. Economic Mineralogy Poster: *Rare-Element Pegmatites: Ore Deposit Evaluation of the LCT and NYF Families*
3. Petrology Poster: *Research of the Fish Canyon Tuff*
4. Mineralogy Presentation: *Corundum*

UNDERGRADUATE RESEARCH

1. **Arnold, Autumn** and Friedman, Sarah. *Magnetic Susceptibility of Georgia Southern University Soils*
2. **Arnold, Autumn**; Swanson, Travis; Prokocki, Eric. *Physical simulation of bedform responses to periodic temperature oscillations.*

LABORATORY AND FIELD TECHNOLOGY

Simulated Classroom Aquifer Models ▪ TopoBox Augmented Reality Sandbox ▪ Classroom Projector ▪ Standard Transit Brunton ▪ GeoProbe ▪ Ground Penetrating Radar ▪ Electrical Resistivity ▪ Kappabridge ▪ X-ray Fluorescence ▪ X-ray Diffraction ▪ Hand Auger ▪ Garmin ▪ Google Earth ▪ Acoustic Doppler Velocimeter ▪ Annular Flume ▪ Hydraulic Flume ▪ Jacob Staff ▪ Lapidary Saw ▪ Petrographic Microscope ▪ Bailer ▪ Piezometer

ACHIEVEMENTS

Georgia Southern University Dean's List: **2023, 2020, 2019**

Geological Society of America's Field Camp Scholarship: **2023**

University of Louisiana at Lafayette Field Camp Scholarship: **2023**

Georgia Southern University President's List: **2023**

Jim and Susan Darrell Scholarship: **2022, 2021**