Ana C. dos Santos, G.I.T

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EDUCATION

Auburn University, Auburn, AL **Grad: May 2028**

Master of Science in Geology
Geochemistry focus

University of West Georgia, Carrollton, GA **May 2026**

Bachelor of Science in Professional Geology, GIS Minor
GPA: 3.97
Awards: summa cum laude, James Boyd Emory Award, Georgia Mae White Award.

Georgia Military College, Fayetteville, GA **May 2023**

Associate of Science in General Studies, GPA: 3.94
summa cum laude.

PUBLICATION

Dos Santos, A., & Ivester, A. (2025). Mapping Fluvial Terraces Using Geospatial Analysis: A Case Study on the Piedmont of Georgia, USA. Journal of Earth Observations and Geospatial Applications, 1(1), 83-93.

CONFERENCE PRESENTATIONS

Dos Santos, A. C. and A.H. Ivester (2025) Mapping fluvial terraces using a geospatial workflow that integrates soil survey and detrended LiDAR imagery: a test case on the Georgia piedmont. The Geological Society of America, San Antonio, Texas.

Dos Santos, A and A.H. Ivester (2025) Geospatial analysis of fluvial geomorphology of the Little Tallapoosa River watershed, Carroll County, Georgia. Georgia Academy of Sciences, Young Harris College.

Dos Santos, A.C. and A.H. Ivester (2025) Geospatial Analysis of Fluvial Geomorphology of the Little Tallapoosa River Watershed, Carroll County, Georgia. Scholars Day, University of West Georgia.

Dos Santos, A.C. and C. C. Mason (2024) Stratigraphic Evidence for Evolution on the Paleo-Colorado River in Chemehuevi Valley, California. Scholars Day, University of West Georgia.

PROFESSIONAL EXPERIENCE

Auburn University **August 2026 – May 2028**

Graduate Teaching Assistant

- The responsibilities include instructing multiple laboratory sections, grading assignments and lab work, preparing laboratory materials and activities, instructor assistance with course related tasks, and holding office hours to provide academic support and guidance to students.

Cobb Landmarks August 2025 – May 2026

Dendrochronology Student Intern

- Conduct inventory of wood samples collected from historic sites; prepare and surface wood samples for dating; scan woods samples, measure ring widths with CooRecorder, and apply other dendrochronology procedures for dating when the trees were cut for construction. The ultimate goal of this project is to establish construction years for historic buildings and contribute to the development of the region's tree ring chronology.

Field Investigations and Experimental Sciences, University of West Georgia January 2025-May 2026

Water Quality Field Technician

- I conduct visits to stream sites, test multiple water quality parameters, make observations, monitor environmental conditions that may impact water quality, and collect samples for lab analysis. Additionally, I calibrate, maintain, and troubleshoot field equipment to ensure optimal testing conditions.

UWG Online, University of West Georgia April 2024-May 2026

Help Desk Student Assistant

- Monitor live chat support queues while providing real-time assistance to students and faculty members' calls, guiding users through step-by-step solutions to technical troubleshooting procedures, and maintaining detailed documentation of customer interactions and resolutions in the ticketing system.

Luminescence Sample Prep Laboratory, University of West Georgia September 2024

Lab Assistant

- Duties included general lab maintenance and recycling of sodium polytungstate.

University of West Georgia February-May 2024

Student Research Assistant

- Literature review
- Fieldwork
- Measuring and drawing stratigraphy
- Sampling management and description
- Primitive camping
- Interpretation of sedimentary facies

University of West Georgia August 2023-March 2024

Peer Tutor

- Facilitate learning by assisting and communicating concepts in an easier way to help students become successful independent learners.

FIELD EXPERIENCE

Mapping Fluvial Terraces Using Geospatial Analysis **August 2024-December 2025**

- This project is based on mapping the upper Little Tallapoosa river terraces using GIS and LiDAR 1 meter DEM data. We developed a method that combines USDA-NRCS soil map units with a geospatial workflow processing 1-m LiDAR imagery to delineate stream terraces in the Upper Little Tallapoosa basin of western Georgia (USA). We use various geospatial tools to de-trend a LiDAR-based DEM in order to optimize for identifying stream terrace surfaces.

Stratigraphic Evidence for Evolution on the Paleo-Colorado River in Chemehuevi Valley, California **February-May 2024**

- This research project was focused on investigating the environmental conditions of the lower Colorado River formation that existed about 5 million years ago. The fieldwork in the Chemehuevi Valley and the Blythe Basin included documenting sedimentary evidence for paleo-environments at the time of the initial filling of the basin/lake and collecting samples of sedimentary rocks deposited during the first phase of the Colorado River formation. The stratigraphic data and rock samples we collected will form the basis for a grant proposal that will hopefully allow us to conduct geochemical analyses (stable oxygen and carbon isotopes, and clumped isotope paleothermometry) to shed light on the environmental conditions of the early Colorado River.

TECHNICAL SKILLS

Computer software/ frameworks: Microsoft Excel, ArcGIS Pro, QGIS, CooRecorder (Dendrochronology).

Languages: English (fluent), Portuguese (native).

Fieldwork skills:

- Geologic and structural field mapping
- Sample collection
- Soil description using standard USDA/NRCS methods
- Soil augering and mapping
- Increment borer (Dendrochronology)
- Stratigraphic column construction

Laboratory skills:

- Proctor and Atterberg limits
- Core logging
- Dendrochronology sample preparation and measurement
- Optical mineralogy and petrography
- Stereonet plotting