

Elijah Juarez

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SUMMARY

Undergraduate environmental science student preparing for supervised **soil science** research through laboratory analysis, field sampling, data curation, and technical communication. Coursework and research experience include basic chemical, physical, and biological soil analyses, **sample preparation**, pH, **electrical conductivity**, gravimetric moisture, texture, organic matter, and decomposition observations. Laboratory work follows established procedures, safety practices, traceable identifiers, and complete **research documentation**. Field studies connect soil measurements with vegetation, weather, and site conditions. Spreadsheet analysis, descriptive statistics, graphs, technical reports, and oral presentations support clear interpretation of findings. Current research assistant work has strengthened collaboration with supervising researchers and confidence developing focused research questions. Ready for a part time undergraduate assignment involving laboratory activity, computer based analysis, outdoor observations, and independent soil research under academic guidance.

EDUCATION

Bachelor's Degree in Environmental Science, Soil and Water Concentration
Mercer University GPA: 0
Coursework: Soil chemistry, soil physics, soil biology, environmental data analysis

2027
Macon, GA

TECHNICAL SKILLS

- **Soil Chemistry:** pH analysis, electrical conductivity, organic matter
- **Soil Physics:** Texture analysis, gravimetric moisture, soil cores
- **Soil Biology:** Decomposition studies, biological activity, sample observation
- **Laboratory Methods:** Sample preparation, measurements, quality checks
- **Laboratory Safety:** Sample handling, bench organization, disposal procedures
- **Field Research:** Soil sampling, field observations, weather records
- **Field Safety:** Outdoor safety, weather awareness, site procedures
- **Data Management:** Data collection, data curation, identifier tracking
- **Spreadsheet Analysis:** Structured workbooks, variable definitions, unit checks
- **Statistical Analysis:** Descriptive statistics, distributions, relationship analysis
- **Research Documentation:** Research notebooks, methods, observations
- **Scientific Writing:** Technical reports, research papers, limitations
- **Data Visualization:** Graphs, figures, presentation of findings
- **Communication Tools:** Oral presentations, research meetings, peer workshops
- **Environmental Science:** Soils and water, forestry fundamentals, ecosystem processes

SKILLS

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|----------------------------|---------------------|--------------------------|----------------------|
| • Soil chemical analysis | • Laboratory safety | • Data curation | • Technical writing |
| • Soil physical analysis | • Field safety | • Spreadsheet analysis | • Oral presentations |
| • Soil biological analysis | • Soil sampling | • Descriptive statistics | • Soils and water |
| • Sample preparation | • Data collection | • Research documentation | |

EXPERIENCE

Soil Science Research Assistant
University Research Lab

January 2026 - Present
Macon, GA

Support supervised soil research through laboratory analyses, **sample tracking**, spreadsheet curation, **statistical interpretation**, documentation, and student research presentations. Work closely with a supervising researcher while connecting field observations with laboratory evidence and maintaining safe, organized procedures.

- Processed samples across 36 locations, preserving identifiers and recording preparation steps for nutrient research.
- Measured pH, conductivity, moisture, texture, and **organic matter** using established **laboratory procedures**.
- Applied **laboratory safety** practices during handling, cleanup, equipment care, and disposal activities.
- Curated field and laboratory records, correcting missing values and inconsistent units in structured spreadsheets.
- Created **descriptive statistics** and graphs, then reviewed soil property patterns with the supervising researcher.
- Presented methods and preliminary findings at a student research meeting, incorporating feedback into revisions.

Soil Science Field Research Student

August 2025 - December 2025

Field Soil Characterization Project

Macon, GA

- Completed a supervised field and laboratory study comparing soil conditions across wooded and managed campus sites. Defined a **research question**, organized sampling, connected field identifiers with measurements, and communicated limitations through written and oral findings.
- Defined a sampling plan for 18 points across wooded and managed campus sites before collection.
 - Collected soil cores and **observations** while recording weather, vegetation, and surface conditions safely.
 - Measured **texture**, moisture, and pH, linking laboratory results with field identifiers for comparison.
 - Organized variables and curated datasets in spreadsheets, checking duplicate **measurements** for consistency.
 - Evaluated environmental factors and **sampling limitations** affecting comparisons between site conditions.
 - Produced a **technical report** and presentation explaining methods, evidence, conclusions, and research limits.

Soil Biology Course Researcher

January 2025 - May 2025

Student Lab

Macon, GA

- Conducted supervised soil biology research examining decomposition and observable biological activity across contrasting vegetation settings. Prepared replicated samples, maintained organized records, analyzed observations, and explained uncertainty through a research paper and class presentation.
- Investigated **decomposition** and **biological activity** in samples from contrasting vegetation settings.
 - Prepared replicated samples under **supervision**, following scheduled measurements and **laboratory safety** practices.
 - Entered observations in a standardized workbook, preserving labels and documenting corrections transparently.
 - Calculated summary statistics and created figures comparing biological observations with moisture conditions.
 - Wrote a research paper covering questions, methods, results, **uncertainty**, and ecosystem implications.
 - Presented findings and answered questions about sampling choices, data quality, and interpretation.

PROJECTS

Campus Soil Conditions Study 📅 2025

Compared soil conditions across wooded and managed campus sites, linking field observations with laboratory measurements. The project connected careful evidence with a practical question about ecosystem differences and encouraged clear communication of uncertainty.

Soil Decomposition Investigation 📅 2025

Examined decomposition and biological activity across vegetation settings through supervised sample preparation, scheduled observations, summary statistics, and scientific writing. Results showed how organized records can support thoughtful ecosystem assessment.

LEADERSHIP & AWARDS

- Dean's List, 2025 and 2026, recognized sustained academic performance.
- Undergraduate Research Mini Grant Recipient, 2026, supported continued student research.
- Environmental Science Student Poster Recognition, 2026, honored clear presentation of research findings.

CERTIFICATIONS

- Laboratory Safety Fundamentals 📅 2026
- Field Research Safety 📅 2025

PROFESSIONAL AFFILIATIONS

- Student Environmental Research Group, Peer Data Workshop Volunteer, 2025 to Present.
- Campus Sustainability Field Day, Student Volunteer Coordinator, 2026.

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST