Lindsay Lemmons

Geophysicist

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EXPERIENCE

Isotopic Geochemistry Lab Technician, Texas A&M University — *Dr. Brent Miller*

JANUARY 2023 - PRESENT

- Spot welded and degassed radium and platinum ribbon filaments to secure rock samples and facilitate ionization within the mass spectrometer to determine crystallization date of sample
- Grinded minerals into powders and bonded with elvacite-acetone solution to be placed in manual hydraulic press to form mineral pellets that are later encased in an epoxy puck to be subject to laser ablation for precise compositional analysis
- Trained and mentored eight senior projects students in the process of making mineral pellets

Ground Penetrating Radar (GPR) Surveying, Texas A&M University — *Dr. Mark Everett*

JANUARY 2024 - PRESENT

- Surveyed shallow subsurface in Plummers and Garrison Cemeteries in Austin, Texas to define locations of unmarked graves for historical and archaeological purposes
- Analyzed line data in PulseEkko Project to define radar signatures and generate depth-time slices of the project grid

Undergraduate Research Assistant, Texas A&M University — *Dr. Nicholas Perez*

AUGUST 2022 - DECEMBER 2022

- Analyzed and input Peru Trench sediment sample data into R program to generate pie charts for sample comparison
- Mailed sediment samples to labs and communicated with PhD students on project

Undergraduate Teaching assistant, Texas A&M University

— Dr. Marion Nachon

JANUARY 2024 - MAY 2024

- Assisted in facilitating and grading Geology 310: Planetary Geology lecture

— Dr. Anne Raymond

AUGUST 2024 - MAY 2025

- Assisted in facilitating and grading Geology 207: Dinosaur World lecture and labs

EDUCATION

Texas A&M University, College Station, Texas

AWARDED MAY 2025

- *Bachelor of Science in Geophysics with Geology Minor*
- *GPA: 3.289*
- *Dean's List Spring 2024*
- *Tau Mu Lambda nomination*

TECHNICAL SKILLS

- Google Earth Pro
- ArcGIS Pro
- Matlab
- PulseEkko Project Software
- Spot welding/Outgassing filaments
- Hydraulic Press
- Lab Safety Certified

CO-AUTHOR ON AGU ABSTRACT SUBMISSIONS

- 2024 Radar diagnostic testing for unmarked graves at historical burial sites: case study at Plummer's historic cemetery, Texas Abstract ID# 1590355 Link
- 2025 Interpreting Subsurface Disturbances Using Ground Penetrating Radar and Modeling of a Historic Urban Setting in Austin, Texas Abstract ID# 1911043

ACTIVITIES

- Kappa Alpha Theta
- Women in Geosciences
- Geology and Geophysics Society: CFO 2023-2024
- TAMU AAPG: American Association of Petroleum Geologists
- Aggie Speleological Society