

Abigail Manderano

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EDUCATION:

Southern Methodist University | M.S. Geophysics Expected Graduation: May 2027
SUNY Binghamton University | B.S. Geology | Minor: Digital and Data Graduation: May 2025

OBJECTIVE:

An internship as a geophysicist in the oil and gas industry for Summer 2026.

RELEVANT COURSEWORK:

Geophysics, Structural Geology, Basin Analysis, Field Studies, Geospatial Sensing, Research Methods

WORK EXPERIENCE:

Laboratory Technician Internship May 2024 – August 2024
Lozier Environmental Consulting Inc. Rochester, NY

- Prepped 30+ samples daily, documented data and analyzed results, coordinated on project progress

RESEARCH EXPERIENCE:

Undergraduate Student Researcher August 2024
Texas A&M Geology Undergraduate Summer School Texas A&M University

- Collaborated with a team to identify factors affecting slope stability in relation to submarine landslides
- Collected grain size data, created frequency curves, modeled data using Plaxis, presented findings

Environmental Visualization Undergraduate Peer Mentor August 2024 – December 2024
First-Year Research Immersion Program (FRI) Binghamton University

- Guided teams in learning background, techniques, and research of their topic, provided new ideas

Student Researcher August 2021 – December 2022
First-Year Research Immersion Program Binghamton University

- Explored how PFM-1 landmines can be aerially located using thermal sensors and machine learning
- Analyzed data and organized findings to create research focused poster display and research proposal

PRESENTATIONS:

- “Ayoluengo Field, Northern Spain”
 - AAPG Imperial Barrel Award Competition, 3-20-2025
- “Machine Learning to Improve Detection of PFM-1 Landmines with Thermal Imaging”
 - FRI Poster Research Session, Binghamton University, 12-2-2021 and 12-1-2022

AWARDS:

- AAPG Foundation Field Camp Scholarship May 2025
- Association of Environmental and Engineering Geologists Stout Scholarship May 2025
- National Association of Geoscience Teachers Field Study Scholarship March 2025

PROFESSIONAL AND STUDENT ORGANIZATIONS:

- GeoClub – Vice President September 2025 – Present
- Dallas Geophysical Society September 2025 – Present
- SMU SEG Student Chapter August 2025 – Present

SKILLS:

Computer Skills: Python, R, Microsoft Office, GIS, Google Earth Pro, Tableau

Languages: English, French

Teamwork: group research, seven years of team competitive dance, peer mentor

Communication: organizing meetings, expressing leadership at jobs, oral and written communication skills

HOBBIES:

Dance: ballet, jazz, modern, and tap, crocheting, reading, playing piano, painting