

Joshua Miller

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EDUCATION

MSc in Geology, University of Houston, Houston, TX

Expected May 2025

Thesis: Structural-Stratigraphic framework and Basin Modeling of the Pelotas Basin

- GPA: 3.8
- Coursework: Basin Analysis for Petroleum Exploration (Dr. Mann), Remote Sensing (Dr. Khan), 3D Seismic Exploration (Dr. Zhou) Petroleum Prospecting Workshop (AAPG IBA – Dr. Mann), Petroleum Exploration Rifted Passive Margins (Dr. Mann), EVOLVE (Dr. Castagna)
- IBA-AAPG North American champion 2024
- Seismic Interpreter and Stratigrapher of IBA team UH 2024, prospect exploration and development in Alaska, Bristol Bay Basin.
- Engineer of EVOLVE UH geothermal team, prospect exploration and development Cooper Basin, Australia
- Advisor: Dr. Paul Mann

B.S. in General Geology, The University of Texas, Austin, TX

May 2023

- GPA: 3.1

WORK EXPERIENCE

Research Assistant

Jan 2024 – Present

Conjugate Basins Tectonics and Hydrocarbons Consortium, UH

- Collaborate with Dr. Mann to conduct a study on the structural and stratigraphic framework of the Uruguayan margin as well as basin modeling of the Pelotas Basin
- Analyzed potential fields data to determine the crustal type of the Bering Sea and establish the arc framework of the region

Research Assistant

March – Aug 2023

University of Texas Geology Lab - Austin, TX

- Working in the sedimentary deposits and morphodynamics labs under Dr. David Mohrig
- Working on a project to determine the amount of microplastics in sand samples from Matagorda Bay
- Determined grain size and makeup of sand samples collected from Matagorda Bay using a Hydro LV
- Quantified microplastics in samples characterized with a petrographic microscope

Geology Intern

July - Aug 2021

Texas American Resources - Austin, TX

- Worked under VP Geosciences re-geosteering wells on potential M&A project
- Picked through eighty wells determining if target zone was hit through StarSteer
- Helped leadership of company gain resources and grow the company
- Enhanced knowledge of oil field through hands on experience
- Put forth an assessment of wells recently purchased to re-drill and gain profit

LEADERSHIP AND AWARDS

Texas Phi Gamma Delta Philanthropy Chair

May 2020 – May 2022

- Responsible for organizing philanthropy events and fundraising for numerous charities

Alexander Stuart Delgado Jr. Scholarship

- Awarded by Texas Exes to men of the Phi Gamma Delta fraternity and requires a 3.0 Cumulative GPA

Richard Spencer Lewis Award

- Awarded for dedication to chapter and philanthropic contributions

Jackson School of Geosciences Scholarships

- Joseph S. Cullinan Memorial Scholarship in Geological Sciences
- Joan Echols Scholarship
- Scholarship for Field Camp 2022

PROFESSIONAL AFFILIATIONS

- **American Association of Petroleum Geologists**, Houston, TX 2019 - Present
- **Houston Geological Society**, Houston, TX 2023 - Present
- **Society of Exploration Geophysicists**, Houston, TX 2022 - Present
- **South Texas Geological Society**, San Antonio, TX 2024 - Present

PROFESSIONAL PRESENTATIONS

- Structure and Tectonic Seminar Spring 2024: Tectonic framework of the Aleutian Arc, Alaska
- Student Research Day University of Houston: Paleogene arc collision and migration in the Bering Sea interpreted from regional magnetic and gravity data

SKILLS

- **Core:** Advanced knowledge of geosciences, basin analysis, seismic data interpretation, and stratigraphic analysis
- **Soft Skills:** Leadership, problem-solving, teamwork and collaboration, quick learner, self-motivated, well organized,
- **Software:** Petrel, Oasis Montaj, QGIS, Excaliber, Trinity-Genesis, ArcGIS, ENVI, StarSteer, Python, MS Office