

# Jacob Allen

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## **EDUCATION**

### **University of Texas**

*Master of Science in Geophysics*

• **GPA:** 3.5 / 4.0

• **Honors:** Cum Laude (current)

• **Relevant Coursework:** Seismology I, Advanced Petrophysics, Carbon Capture and Sequestration, Tectonic Problems

**Austin, Texas**

Expected May 2025

### **Texas A&M University**

*Master of Science in Geophysics*

• **GPA:** 3.8 / 4.0

• **Honors:** Summa Cum Laude

• **Relevant Coursework:** Intro to geology, Historical Geology, Igneous and Metamorphic Petrology, Sedimentology, Structural Geology, Mineralogy, Geology Field Camp, Geologic Field Methods

**College Station, Texas**

Graduated May 2023

## **PROFESSIONAL & LEADERSHIP EXPERIENCE**

### **SETLD Information Solutions**

*GIS Analyst Intern, GIS Group*

**Pearland, Texas**

May 2021 – August 2021

- Utilized knowledge of Geography and Geology to accurately plot locations of oil and gas/energy sector leaseholds, office locations, and wells on a central map data base.
- Learned and utilized programs such as ArcGIS and ArcMap to ensure locations were precise and displayed correctly.
- Presented my work at the conclusion of my internship, complete with both a verbal and written report.

## **RESEARCH EXPERIENCE**

### **University of Texas**

*Graduate Research Assistant, Jackson School of Geoscience*

**Austin, Texas**

July 2023 - Current

Purpose – To understand the faulting mechanisms of the Hikurangi Margin off the eastern coast of New Zealand to provide insight into earthquake detection

- Cut and prepared core samples from several different rock types in the Oligocene Weber Formation.
- Tested cores for permeability, porosity, and fracture healing ability.
- Data analysis on seismic arrival times in core samples to demonstrate changes in seismic speed as a function of confining pressure.
- Trained other graduate students in core sample prep and testing.

## **PUBLICATIONS**

*Experimental Rock Physics Unveils Secrets of the Hikurangi Margin Seismicity* – Oral Presentation, University of Texas Institute for Geophysics Symposium, February 2023

## **AWARDS AND SCHOLARSHIPS**

Texas A&M University – Corpus Christi, Dean's list

Texas A&M University – College Station, Dean's Scholar

## **SKILLS, ACTIVITIES & INTERESTS**

**Technical Skills:** MATLAB, Paradigm, Petrel, ArcGIS, ArcMap

**Activities:** Graduate Student Geosciences Council, Graduate Student Soccer Club, Austin Men's Soccer Association

**Interests:** Main interests lie within the exploration and development side of the oil and gas/energy field. Also very interested in CCUS and its implications in the energy field.

**Professional Memberships:** HGS, AAPG, AGS, GSA, and AGU