

# Zachary Clowdus

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## Executive Summary

Master's student with a diverse geoscience skill base and specialization in seismic interpretation. My internship experience with Oxy has allowed me to utilize my geophysical skills to produce facies probability volumes that were tied to geologic expectations and results to provide strong appraisal recommendations (TX Delaware). Through my work with the SEG EVOLVE program I have collaborated with a diverse team and professional mentors to develop the best exploration investment opportunity within the Vermilion Protraction Area (GoA – offshore LA). Committed to producing high quality solutions with a focus on bottom line considerations and communicating those results to project team members or non-experts

## Software:

- Petrel
- Kingdom
- RokDoc
- ArcGIS Pro
- Spotfire
- GitHub
- Adobe Suite

## Skills:

- Seismic Interpretation
- Python (beginner)
- Data Analysis
- Project Management
- Multidisciplinary Integration

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## Work Experience

### GEOPHYSICS INTERN

(5/2025 – 8/2025)

*Oxy, TX Delaware Subsurface Technology Team, Houston, TX*

- Developed and interpreted facies probability volumes to support reservoir characterization and DSU high grading.
- Executed 15 well-to-seismic ties to establish robust time-depth relationships.
- Interpreted two formation horizons on a merged seismic volume; quality-checked results using isochron and isochore mapping.
- Applied Bayesian Classification to predict facies probabilities, optimizing input schemes to bring classification to an acoustic impedance inversion volume.
- Generated facies probability maps and partnered with geologists and reservoir engineers to tie our results to regional geology and identify production trends within our area of interest.
- Ranked appraisal DSUs based on analysis, recommended process improvements for future project iterations.

### GEODE / SEG INTERN

(9/2024 – 5/2025)

*Geothermal Energy from Oil + Gas Demonstrated Engineering. Project InnerSpace, SPE & US D.O.E, Remote*

- Collaborated with cross-functional teams of oil, gas, and geothermal experts to develop roadmaps illustrating the overlap between oil & gas data and potential geothermal prospect sites. '24)
- Audited state oil and gas databases to assess data coverage, identify pain points, and deliver comprehensive reports on data availability and quality; provided actionable recommendations to support future scaling efforts.
- Assisted with proof-of-concept data uploads and managed file structures within a GitHub repository.

### TEAM LEADER / RESERVOIR ENGINEER

(1/2024 – 8/2024)

*SEG EVOLVE Energy Exploration Internship Program, Remote*

- Experience in exploration workflows, subsurface characterization, economics, and business training relating to the energy industry.
- Shared work in bi-weekly meetings, a 45-minute technical presentation, and a 20- minute investor presentation (IMAGE '24)
- Developed a gas prospect with 105 BCF of recoverable resources and a 50% rate of return

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## Education

### M.S. GEOSCIENCE, THE UNIVERSITY OF NEBRASKA - LINCOLN

*Lincoln, NE (Graduating Dec. 2025, GPA: 4.0)*

**Specialization:** Integrated geophysical interpretation and modeling of the crust in the Northern Atlantic

- President of AAPG Student Chapter and Vice President of SEG Student Chapter

### B.S. GEOSCIENCE, THE UNIVERSITY OF TEXAS AT DALLAS

*Richardson, TX / (Cumulative GPA: 3.3)*

- Published Co-author: "Workflow for designing instructional videos to support place-based geoscience education for geoscience majors" (Wang et al, 2022)

**Relevant Coursework:** Structural Geology, Geophysics, Sedimentology, Sequence Stratigraphy, Mineralogy, Petrology, Hydrogeology, Theoretical Physics, Differential Equations, Calculus III, Linear Algebra, Statistics, Field Camp

## AWARDS / CERTIFICATES:

- Kristian Soegaard Scholarship Award - 2018
- Petroleum Opportunity Scholarship Award - 2019
- GSA Science Communication Internship – 2019
- Earth and Atmospheric Sciences Summer Fellowship – 2023
- Nebraska Geo Society Best Student Presentation – 2024
- SEG EVOLVE Energy Exploration, Award: "Creativity in the Delivery of Technical Work Results" - 2024