

ADAM E. LANE

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SUMMARY

KU Geology PhD candidate, veteran, ASBOG Geologist-in-Training, 2016 top geology undergraduate in Missouri, and prior Top Secret security clearance holder with a background in petroleum geology, geophysics, and GIS.

EDUCATION

PhD Geology (3.75 GPA) | University of Kansas (KU); Lawrence, KS | *August 2026*

- **Dissertation** | Insights into the Role of Precambrian Basement Shear Zones in Phanerozoic Geologic Processes
 - From basinwide temperature modeling to 3D seismic to core, investigating the Denver basin's "fossil" and present-day hydrothermal systems, tectonic features, and the nature of their interrelationships with a focus on the Mississippian karst collapse brecciated, hydrothermally mineralized, and wrench faulted dolomite reservoir of the Arikaree Creek field

MS Geology (4.00 GPA) | Kansas State University (KSU); Manhattan, KS | *May 2018*

- **Thesis** | The Echo Cliff Structure: Identification and Analysis of a Possible Kansan Impact Structure
 - Planned, conducted, and processed data from ten miles of 2D gravity lines | Created an inverse subsurface model by integrating geophysical and geological data | Spatially correlated earthquake epicenters to aeromagnetically interpreted basement faults
- **AAPG Imperial Barrel Award** | KSU IBA Team | *March 2017*
 - Analyzed well logs for gas crossover | Calculated risked reserves | georeferenced and imported imagery into Petrel

BS Geology (3.82 GPA & Honors Program) | Northwest Missouri State University (NWMSU); Maryville, MO | *April 2016*

- **Undergraduate Research** | Petrology, Petrography, Conodont Biostratigraphy, and Correlation of an Unknown Pennsylvanian Cyclothem from an Outcrop in South-Central Iowa
 - Collected and dissolved shale and limestone for conodonts | Picked and imaged conodonts with a scanning electron microscope

RELEVANT EMPLOYMENT HISTORY & MILITARY SERVICE

Geoscience Intern | Devon Energy | *May - August 2025*

- Described and classified facies within ~1,400 ft of Niobrara core from the Powder River basin, correlated to electrofacies using k-means clustering, and interpolated results in 3D | Identified additional stratigraphic surfaces to refine internal subdivisions | Proposed areas for asset expansion using maps generated from software-interpolated and hand-contoured well log data

Geoscience Intern | Pioneer Natural Resources | *June - August 2021*

- High-graded areas for enhanced wastewater injection potential and provided an improved context for understanding geohazards (drilling flows / losses and chert presence) in the Delaware Mountain Group (DMG), Delaware basin by expanding an existing stratigraphic framework through well log correlation and calculation | Interpreted seismic horizons to image DMG channels

Graduate Teaching Assistant (Petroleum Geology & Sed / Strat Lab) | Department of Geology, KU | *August 2020 - May 2021*

- Taught both geologists and petroleum engineers the basics of subsurface structural contouring, well log correlation, interpretation of seismic data, and sedimentary geology concepts | Oversaw and guided group projects focused on oil fields in western Kansas

GIS Intern | City of Manhattan, KS | *May - October 2018*

- Team-built an ArcGIS Pro interactive map of > 16,000 water meter pits for in-field use on ArcGIS Collector capable tablets

Lead Graduate Teaching Assistant | Department of Geology, KSU | *May 2017 - May 2018*

- Supervised and trained eight graduate teaching assistants | Taught nearly 200 students the fundamentals of earth science

Signals Intelligence Analyst (35N) | Missouri Army National Guard | *March 2010 - March 2016*

- Integrated varied data sets within ArcGIS to locate and track enemies | Judged situations and provided timely recommendations to superiors based on my analysis and interpretation | Held to high ethical standards due to national intelligence database access

PROFESSIONAL DEVELOPMENT

Certifications

- **ASBOG Geologist-in-Training (GIT)** | *May 2019*

Short Courses

- **AAPG / SEG** | Mudstones: Key to Paleoclimate Archives, Subsurface Fluid Flow, and Hydrocarbon Source, Reservoir, and Seal
- **Applied Stratigraphix** | Unconventional Hydrocarbon Evaluation: Methods, Mapping, and Risking | Fractures 101
- **ExxonMobil Recruiting** | Multi-Disciplinary Subsurface Integration in Exploration and Production, from Plates to Pores

TECHNICAL SKILLS

Software | Kingdom, EasyCore, ArcGIS Pro, PaleoScan, Petrel, Oasis Montaj, HampsonRussell, Microsoft Office Suite

AWARDS & HONORS

5th Place Poster | HGS Student Expo | *September 2025*

2nd Place Elevator Pitch | HGS Student Expo | *September 2024*

Oliver Rudolph Grawe Award | Association of Missouri Geologists | *October 2016*

- Presented annually to the top junior or senior geology undergraduate in Missouri

Valedictorian & Army Achievement Medal | Signals Intelligence Analyst Course | *March 2012*

- The top graduate of a mentally strenuous, 6-month military intelligence course with 90% failure rate

ORGANIZATIONS

AAPG | *August 2014 - Present*