

Jacob F. Miller

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SUMMARY

Geophysics master of science candidate seeking an internship or full time geoscientist position. Experience using Petrel and Kingdom to interpret seismic data, creating synthetic seismograms, and performing risk assessments. Competed on the UH Imperial Barrel Award (IBA) team and placed first at the 2019 World Championship and Gulf Coast Regional.

EDUCATION

University of Houston

Master of Science Geophysics – Thesis based

Expected Graduation: Dec 2020

Graduate Advisor: Dr. Paul Mann

GPA: 3.7

Thesis Topic: To extend and build upon interpretations of the southeastern Caribbean by creating a representative basin model, mapping tectonostratigraphy, and integrating gravity and magnetic data.

Graduate Courses – Petroleum Prospecting, Basin Analysis for Petroleum Exploration, Reservoir Geophysics, Rock Physics, Geophysical Data Processing, and Seismic Wave and Ray Theory

Bachelor of Science – Cum Laude – Geophysics

Graduated: May 2017

Bachelor of Science – Cum Laude – Geology

Major GPA: 3.64

Cumulative GPA: 3.32

SKILLS

Relevant skills – Hydrocarbon exploration, 3D and 2D seismic interpretation, synthetic seismogram, fluid substitution, risk assessment, volumetrics, play concepts, play element analysis, well log interpretation, seismic processing, and seismic data collection

Software – Petrel, Kingdom, Hampson Russell, StructureSolver, GPlates, Petromod, MATLAB, TEQC, ENVI, and all Microsoft programs

Certifications – HAZWOPER 40-hour; OSHA General Industry Safety and Health; OSHA Construction Safety and Health

Boy Scouts of America (BSA) – Eagle Scout

Developed skills in leadership, problem solving, teamwork, and collaboration by leading the installation of storm drain markers and public pollution education. Completed a Hornaday project by leading a team in planting 90 small trees at Duhacsek Park and assisting in planting 5,300 saplings at Sugar Land Memorial Park.

EXPERIENCE

Imperial Barrel Award (IBA) Program – UH Competition Team

January 2019 – May 2019

1st Place World Championship 2019

1st Place Gulf Coast Regional 2019

- Served on the American Association of Petroleum Geologists (AAPG) UH IBA competition team to conduct geological and geophysical exploration of the Exmouth Plateau in the North Carnarvon Basin, Australia.
- The team conducted the assessment/creation of the following aspects into a presentation presented to a panel of judges: synthetic seismogram generation, 2D/3D seismic data interpretation, fluid substitution, volumetrics, risk assessment, play concepts, play element analysis, composite and surface maps, and well log interpretation.

Edge Engineering and Science – Environmental Scientist

January 2017 – May 2019

Award - Core Value Award, March 2018

- Lead contractors during site remediation to remove contaminants from client properties while implementing state and federal regulation.
- Create and enforce health and safety plan (HASP) protocol at remediation sites.
- Lead the field completion of Phase I and Phase II Environmental Site Assessments (ESAs) and Property Transactions Screen Analysis (TSA).

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- Assist in the completion of state regulated remediation projects, and the completion of state and federal reporting annual reporting programs.
- Lead the installation of groundwater monitoring wells and media sampling.

Belize Geophysical Surveying Trip – Field Geophysicist **January 2017**

- Gather seismic and resistivity data in local villages to find ground water for the installation of wells within the villages.

University of Houston Allied Geophysical Lab – Undergraduate Research Assistant **Spring 2016 – May 2017**

- Conduct and assist with geophysical research including data acquisition, processing, and interpretation.

University of Houston Geophysics Field Camp – Teaching Assistant **Summer 2016**

- Assist with instructing students on the use of a total station and processing collected gravity data paired with elevation measurements.

HONORS AND AWARDS

AAPG IBA Competition – First Place at World Championship and Gulf Coast Regional **May 2019, March 2019**
Core Value Award – Edge Engineering and Science **March 2018**
UH College of Natural Science – Dean’s List **Fall 2014 – Spring 2016**
Boy Scouts of America – Eagle Scout **July 2010**
Boy Scouts of America – Hornaday Award (*A National Environmental Award*) **February 2010**
The President’s Volunteer Gold Award – *250+ volunteer hours each* **2007, 2008, 2009**

ORGANIZATIONS

SEG Wavelets – Society of Exploration Geophysicists – Member **Spring 2016 – Present**
• Vice President **May 2019 – Present**
AAPG Wildcatters – American Association of Petroleum Geologists– Member **Spring 2016 – Present**
NSLS – The national Society of Leadership and Success, Member **Fall 2016 – Present**
GeoSociety – Member **Fall 2015 – Present**