

Geophysicist and delight in working in highly challenging projects, hard worker, responsible, punctual, organized, and goal oriented.

RESEARCH INTERESTS

Reservoir Characterization, Quantitative Seismic Interpretation, AVO Modeling and Rock Physics, Seismic Attributes, Clastic Sequence Stratigraphy, and Seismic Geomorphology with special focus on Deep Water Reservoirs

EDUCATION

PhD. Candidate in Geophysics at the University of Houston	GPA: 3.83/4.0	August 2016 - Present
MSc. in Geophysics from Ain Shams University, Egypt	GPA: 3.34/4.0	October 2010 – January 2014
BSc. in Geophysics from Ain Shams University, Egypt	GPA: 3.34/4.0	September 2006 – June 2010

PROFESSIONAL EXPERIENCE

Teaching Assistant at the University of Houston August 2017 - Present

- Conduct the labs & examinations, and grade the assignments.
- Assist in off-campus and on-campus field trips.

Teaching Assistant at Ain Shams University, Egypt April 2011 – August 2016

- Developed syllabus and taught different geophysical labs.
- Conducted software training for undergraduate students (e.g. Petrel, TechLog and Seismic UNIX).
- Conducted the labs & examinations, and graded the assignments.

INDUSTRIAL INTERNSHIPS AND PROJECTS

MSc. Research Project at BP Company, Cairo, Egypt July 2012 – October 2013

Topic: 3D Seismic Reflection and Well Log Data Analysis for Reservoir Characterization at Oligocene Sands, Nile Delta, Egypt.

- Petrophysical Analysis of the Early Oligocene (Rupelian) Reservoirs.
- Seismic mapping of the main reflectors of the Rupelian interval to understand the Structural Development of the Oligocene section of the Nile Delta.
- Performing various geometric and amplitude attribute volumes and maps to define main architecture elements of the Rupelian reservoirs.
- Integrating the seismic-derived depositional maps with well logs, cores, and cutting description for understanding the reservoir characteristics and quality of the Rupelian reservoirs.

AAPG Imperial Barrel Award Project at BP Company, Cairo, Egypt January 2011 – March 2011

Topic: Hydrocarbon Exploration of an area in Cooper Basin, South of Australia.

- Well log analysis to define the main reservoirs in the study area.
- Structural and stratigraphic interpretation.
- Mapping the producing reservoirs and generating amplitude maps to define the depositional elements of the reservoirs.

- Petroleum system analysis to evaluate the source rock maturation and studying the migration pathways.
- Hydrocarbon play identification, volumetric calculations, and risk assessment.

Another Industrial Internships and Projects at Various Petroleum Companies in Egypt June 2009 – June 2010

Shell, Schlumberger, Kufpec, Gupco, Khalda, Petrobel and EGPC

- Practical training in seismic data processing and interpretation.
- Well log interpretation and correlation.
- Software training in Petrel from Schlumberger.

WORK STATION SKILLS

- Seismic UNIX.
- Seisworks and Openworks (Landmark).
- Commercial software packages: -
 - Seismic Interpretation – Petrel and Kingdom.
 - Petrophysical/well log analysis – TechLog.
 - Seismic Data Processing – VISTA.

SCHOLARSHIPS AND AWARDS

- Robert E. and Margaret S. Sherriff Scholarship from the SEG Foundation Scholarship Program June 2017
- Outstanding Academic Achievement Award from the University of Houston April 2017
- Scholarship from Egyptian Cultural and Educational Bureau – Embassy of Egypt in Washington DC to pursue a PhD. Study in USA August 2016
- Academic Achievement Award from Ain Shams University March 2014

PUBLICATIONS

- Helal, A., El-Rawy, A., Reda, M., and Eweis, M.A., 2013, Depositional Models of the Early Oligocene (Rupelian) Reservoirs Using Seismic Attributes at Offshore Nile Delta, Egypt: the Egyptian Journal of Geology, Vol. 57:163-184.

PROFESSIONAL MEMBERSHIPS

- European Association of Geoscientists & Engineers (EAGE, March 2017 – Present).
- American Association of Petroleum Geologists (AAPG, January 2017 – Present).
- Society of Petroleum Engineers (SPE, December 2016 - Present).
- Houston Geological Society (HGS, November 2016 - Present).
- Geophysical Society of Houston (GSH, November 2016 - Present).
- Society of Exploration Geophysics (SEG, October 2016 - Present).