

Curriculum Vitae

Prof. Mohamed I. Abdel-Fattah



Professor of Petroleum Geosciences

(Petroleum Geosciences & Remote Sensing Program, Department of Applied Physics and Astronomy, University of Sharjah, UAE)

Links:

- https://www.researchgate.net/profile/Mohamed_Abel-Fattah5
- <https://www.linkedin.com/in/dr-mohamed-i-abdel-fattah-09908023/>
- <https://www.scopus.com/authid/detail.uri?authorId=57208312180>
- <https://scholar.google.com/citations?user=arjKHt4AAAAJ&hl=en>

Education

- 2008 – 2010 **Dr. rer. nat. (Geosciences):** Department of Exploration Geology, Institute for Applied Geosciences, Technical University of Berlin, Germany. For a doctoral thesis entitled: "Geophysical Reservoir Evaluation of Obaiyed Field, Western Desert, Egypt".
<https://depositonce.tu-berlin.de/handle/11303/2923>
- 2002 - 2005 **M. Sc. Geology (Applied Geophysics):** Faculty of Science, Suez Canal University, Egypt. October 2005, for a thesis entitled: "Application of Well Logging and Geoelectric Techniques to study Groundwater Occurrences at Abu Mady Area, Nile Delta, Egypt".
- 2000 - 2001 **Postgraduate (Applied Geophysics):** Geology Department, Faculty of Science, Suez Canal University, Egypt. May-2001 (Very Good).
- 1995 - 1999 **B.Sc. (Geophysics):** Geology Department, Faculty of Science, Suez Canal University, Egypt. May 1999 (Very Good with Honors Degree).

Experience

- July 2024- present **Professor of Petroleum Geosciences**
 (Petroleum Geosciences & Remote Sensing Program, Department of Applied Physics and Astronomy, College of Sciences, University of Sharjah, UAE)
- September 2021- July 2024 **Associate Professor of Petroleum Geosciences**
 (Petroleum Geosciences & Remote Sensing Program, Department of Applied Physics and Astronomy, College of Sciences, University of Sharjah, UAE)
- June 2021- September 2021 **Professor**
 (Geology Department, Faculty of Science, Suez Canal University, Egypt)

June 2016- June 2021	Associate Professor (Geology Department, Faculty of Science, Suez Canal University, Egypt)
August 2012 – June 2015	Postdoctoral Research Associate (Post-Doc) (ConocoPhillips School of Geology and Geophysics (School of Geoscience, University of Oklahoma, USA)
2011-2016	Assistant Professor (Geology Department, Faculty of Science, Suez Canal University, Egypt)
2008 - 2010	PhD Student (Department of Exploration Geology, Institute for Applied Geosciences, Technical University of Berlin, Germany)
2005 - 2008	Assistant lecturer (Geology Department, Faculty of Science, Suez Canal University, Egypt)
2001 - 2005	Demonstrator (Geology Department, Faculty of Science, Suez Canal University, Egypt)
2000 - 2001	Research Student (Geology Department, Faculty of Science, Suez Canal University, Egypt)

Areas of Interest

Integrated Petroleum Geoscience, Reservoir Characterization, 3D Static Reservoir Modeling, 2D/3D Qualitative and Quantitative Seismic Interpretation, Well Logging Analysis, Petroleum System Analysis, Source Rock Evaluation, Basin Analysis, Sequence Stratigraphy, Seismic Stratigraphy, and Conventional & Unconventional Reservoirs (Carbonate - Shale Oil & Gas).

Teaching Courses

- Petroleum Geology
- Seismic Stratigraphy
- Well Logging
- Petrophysics
- Basin Analysis
- Seismology and Plate Tectonics
- Reservoir Characterization
- 3D Seismic Data Interpretation
- 3D Reservoir Modeling

Vocational Training and Workshops

○ Seismic Stratigraphy	Prof. John D. Pigott	USA	2015
○ Basin Analysis for Oil and Gas	Prof. John D. Pigott	USA	2014
○ Quantitative Seismic Interpretation	Prof. Kurt J. Marfurt	USA	2013

○ Depositional Systems and Stratigraphy	Prof. Gerilyn S.Soreghan	USA	2012
○ Reservoir Characterization	Prof. Roger M. Slatt	USA	2012
○ 3D Seismic Interpretation	Prof. Kurt J. Marfurt	USA	2012
○ Aspects of Reservoir Characterization (Carbonates)	Dr. Oliver Weidlich Wintershall	Germany	2010
○ WellCAD	Dr. Oliver Weidlich Wintershall	Germany	2010
○ PetroMod Exploration Applications From Frontier to Prospect	Dr. Bjorn Wygrala Schlumberger PetroMod Aachen Technology Center	Germany	2010
○ Open Technology through Ocean	Xavier Peltier Schlumberger	Germany	2010
○ Techlog Interactive Suite 2010	Schlumberger	Germany	2010
○ IT Environment & Infrastructure	J. Bryan Johnston Schlumberger	Germany	2010
○ ECLIPSE 2010.1: What's New Uncertainty and Optimization Workflows	Adrian Anton Schlumberger	Germany	2010
○ Petroleum Petrophysics	Prof. Dr. C. Heubeck Department of Geological Sciences Freie Universität Berlin	Germany	2010
○ Sequence Stratigraphy in Siliciclastic Environments	Prof. Dr. Andreas Schäfer Bonn University	Germany	2010
○ Controlling the Subsurface Environment in the Offshore Exploration for Oil and Gas	Prof. Dr. C. Heubeck Department of Geological Sciences Freie Universität Berlin	Germany	2010
○ Exploration Scalability - Petroleum System Modeling - Well Information Integration - Interpretation Workflows for Reservoir Delineation	Gordy Shanor Schlumberger	Germany	2010
○ Seismic Reservoir Characterization	Gordy Shanor Schlumberger	Germany	2010
○ Handling more Structural Complexity	Gordy Shanor Schlumberger	Germany	2010

○ Advanced Reservoir Characterization	Emer Caslin G&G Technical sales, Paris – Schlumberger	Germany	2010
○ Fault & Reservoir Seal Analysis	Emer Caslin G&G Technical sales, Paris - Schlumberger	Germany	2010
○ Screening & Ranking Petrel Reservoir Engineering - New Features	Adrian Anton Schlumberger	Germany	2010
○ Students: Choose a life, not just a living!	Pascal Breton (Total)	Spain	2010
○ Deepwater Depositional System: An In- troductory Course	Jean Gerard (Repsol)	Spain	2010
○ Integrated Basin Analysis	Bob Stewart (ExxonMobil)	Spain	2010
○ Multi-Interdisciplinary Subsurface Inte- gration in Exploration and Production	SEG/ExxonMobil	Netherlands	2009
○ Integrated Reservoir Modeling	Dr. Andrea Moscariello & Dr. Sergio Ottochian SGS-Horizon BV	Netherlands	2009
○ Geoscience Computing in E&P: Princi- ples of Interpretation and Modelling	Alejandra Reynaldos-Rojas, Schlumberger Oilfield Services	Netherlands	2009
○ Exploration Prospect De-risking	Bruce Levell, Shell	Netherlands	2009
○ SCAL a Key Step for the Reservoir Char- acterization	Patrick Egermann, GDF SUEZ	Netherlands	2009
○ Create and Deliver Effective Presentations	Jim Morris, S&N International	Netherlands	2009
○ Introduction to Organic Geochemistry and Basin Modelling	Dr. Heinz Wilkes Helmholtz-Zentrum Potsdam Deutsches (GFZ) GeoForschungsZentrum	Germany	2009
○ 3D Geological Modelling	Prof. Dominik TU Berlin	Germany	2008
○ Seismic Interpretation	Prof. Dominik TU Berlin	Germany	2008

Publications:

- Sarhan, M.A., Shehata, A.A. and **Abdel-Fattah, M.I.**, 2024. Sequence stratigraphic and petrophysical controls on the oil-reservoirs architecture: A case study from the Cretaceous meqase-quence, Gulf of Suez region, Egypt. *Journal of African Earth Sciences*, p.105412.
- Sarhan, M.A. and **Abdel-Fattah, M.I.**, 2024. Geophysical evaluation and petrophysical assess-ment of the Abu Roash" F" Member: A probable unconventional oil reservoir in Heba Field, eastern Abu Gharadig Basin, Egypt. *Journal of African Earth Sciences*, 217, p.105330.
- **Abdel-Fattah, M.**, Hanafy, M., Hamdan, H. and Attia, T., Integrated three dimensional reser-voir modeling and tectonic evaluation of the Upper Cretaceous Bahariya formation in the Burg El Arab area, Egypt: An implications for hydrocarbon exploration and production strategies.
- Gharib, A.F., Ismael, J.I., Alatrosh, R.K., Farhan, H.N., **Abdel-Fattah, M.I.** and Pigott, J.D., 2024. Organic matter characteristics and hydrocarbon generation potential of the Middle Juras-sic–Lower Cretaceous succession in the Mesopotamian Foredeep Basin, Iraq. *International Journal of Earth Sciences*, pp.1-25.
- Sarhan, M.A. and **Abdel-Fattah, M.I.**, 2024. Integrating well logs and seismic data for a com-prehensive geophysical appraisal of post-Albian oil reservoirs in the SWQ-4X well, Gindi Ba-sin, Egypt. *Egyptian Journal of Petroleum*, 33(2), p.2.
- **Abdel-Fattah, M.I.**, Reda, M., Fathy, M., Saadawi, D.A., Alshehri, F. and Ahmed, M.S., 2024. Oil-source correlation and Paleozoic source rock analysis in the Siwa Basin, Western Desert: Insights from well-logs, Rock-Eval pyrolysis, and biomarker data. *Energy Geoscience*, 5(3), p.100298.
- Kassem, A.A., Nabawy, B.S., Mogren, S., **Abdel-Fattah, M.I.**, Radwan, A.A. and Ibrahim, E., 2024. Implications of the depositional and diagenetic attributes on the reservoir properties of the siliciclastic mangahewa formation, Taranaki Basin, New Zealand: Integrated petrographical and petrophysical studies. *Marine and Petroleum Geology*, 164, p.106823.
- Reda, M., **Abdel-Fattah, M.I.**, Fathy, M. and Bakr, A., 2024. Integrated analysis of source rock evaluation and basin modelling in the Abu Gharadig Basin, Western Desert, Egypt: Insights from pyrolysis data, burial history, and trap characteristics. *Geological Journal*, 59(4), pp.1416-1443.
- Suleiman, B.M., Moraitis, D., **Abdel-Fattah, M.I.**, Attaelmanan, A.G., Hamdan, H. and Al-zaylaie, M., 2024, April. Thermal Properties of Backfill Material for Underground Heat Ex-change Applications. *Journal of Physics: Conference Series*, 2751(1), 012010.
- Safa, K., Elsamani, M.A., Khaldi, H., **Abdel-Fattah, M.** and Hamdan, H., 2024. Unveiling hid-den history: GPR survey reveals buried water well in Liluiyah, Khorfakkan's historic district. 7th International Conference on Engineering Geophysics, ICEG 2023, pp. 143–146.
- Hamdan, H., Moraetis, D., Economou, N., Elsamani, A.M. and **Abdel-Fattah, M.**, 2024. Esti-mating Water Infiltration Rate Using Time-Lapse GPR Technique. *Advances in Science, Tech-nology and Innovation*. pp. 179–181.
- Mebrouki, N., Nabawy, B., Hacini, M. and **Abdel-Fattah, M.I.**, 2024. Deciphering the impli-cation of microfacies types and diagenesis on the reservoir quality of the Cambrian sequence in Hassi Messaoud Field, Algeria. *Marine and Petroleum Geology*, p.106650.
- El-Qalamoshy, T.R., **Abdel-Fattah, M.I.**, Reda, M., Abdelhafeez, T.H., Azzam, S.S.S. and Mosaad, M., 2023. A multi-disciplinary approach for trap identification in the Southern Meleiha Area, North Western Desert, Egypt: integrating seismic, well log, and fault seal analysis. *Geo-mechanics and Geophysics for Geo-Energy and Geo-Resources*, 9(1), p.157.

- Shehata, A.A., **Abdel-Fattah, M.I.**, Hamdan, H.A. and Sarhan, M.A., 2023. Seismic interpretation and sequence stratigraphic analysis of the Bahariya Formation in the South Umbaraka oilfields (Western Desert, Egypt): insights into reservoir distribution, architecture, and evaluation. *Geomechanics and Geophysics for Geo-Energy and Geo-Resources*, 9(1), p.135.
- **Abdel-Fattah, M.I.**, Hamdan, H.A. and Sarhan, M.A., 2023. Hydrocarbon potential and reservoir characteristics of incised-valley transgressive sandstones: a case study of the Messinian gas reservoirs (Nile Delta Basin, Egypt). *Journal of African Earth Sciences*, 207, p.105073.
- **Abdel-Fattah, M.I.**, Sarhan, M.A., Ali, A.S. and Hamdan, H.A., 2023. Structural and petrophysical characteristics of the Turonian "AR/G" reservoirs in heba field (Western Desert, Egypt): Integrated approach for hydrocarbon exploration and development. *Journal of African Earth Sciences*, 207, p.105072.
- Sabry, M.M., **Abdel-Fattah, M.I.** and El-Shafie, M.K., 2023. Rock Typing and Characterization of the Late Cretaceous Abu Roash "G" Reservoirs at East Alam El-Shawish Field, Western Desert, Egypt. *International Journal of Petroleum Technology*, 10, pp.115-134.
- Leila, M., Radwan, A.A. and **Abdel-Fattah, M.I.**, 2023. Lithofacies Controls on Hydrocarbon Generation Potentiality of the Syn-Rift Late Cretaceous Rakopi Deltaic Facies in the North-Eastern Offshore Part of Taranaki Basin, New Zealand. *Minerals*, 13(9), p.1169.
- Sarhan, M.A., Ali, A.S. and **Abdel-Fattah, M.I.**, 2023. Geophysical assessment of basement rocks for use as an unconventional reservoir in the Rabeh East oil field, southern Gulf of Suez Basin. *Euro-Mediterranean Journal for Environmental Integration*, pp.1-15.
- **Abdel Fattah, M.I.**, Hamdan, H.A., Abd-Allah, Z., Abuzied, S.M., and Hammouri, N., 2023. Integrated Geoscience Techniques for Shale Reservoir Characterization: An example from Middle Jurassic Khatatba Formation in the Obaiyed field (Western Desert, Egypt). *International Conference & Exhibition for Science (ICES2023)*, 6-8 February 2023, Riyadh, Saudi Arabia.
- Shehata, A.A., Sarhan, M.A., **Abdel-Fattah, M.I.** and Mansour, S., 2023. Geophysical assessment for the oil potentiality of the Abu Roash "G" reservoir in West Beni Suef Basin, Western Desert, Egypt. *Journal of African Earth Sciences*, p.104845.
- Shehata, A.A., Sarhan, M.A., **Abdel-Fattah, M.I.** and Assal, E.M., 2023. Sequence stratigraphic controls on the gas-reservoirs distribution and characterization along the Messinian Abu Madi incision, Nile Delta Basin. *Marine and Petroleum Geology*, 147, p.105988.
- Radwan, A.E., Husinec, A., Benjumea, B., Kassem, A.A., Abd El Aal, A.K., Hakimi, M.H., Thanh, H.V., **Abdel-Fattah, M.I.** and Shehata, A.A., 2022. Diagenetic overprint on porosity and permeability of a combined conventional-unconventional reservoir: Insights from the Eocene pelagic limestones, Gulf of Suez, Egypt. *Marine and Petroleum Geology*, 146, p.105967.
- Soliman, S.R., Salama, Y.F., El-Sayed, M.I., **Abdel-Fattah, M.I.** and Abd-Allah, Z.M., 2022. Assessment of Mineralogical and Geochemical Composition of Oligocene/Eocene Black Shale Deposits in Beni Suef Area, Egypt. *Advances in Materials Science and Engineering*, p.1-12, 2022.
- Mahdi, A.Q., **Abdel-Fattah, M.I.** and Hamdan, H.A., 2022. An integrated geochemical analysis, basin modeling, and palynofacies analysis for characterizing mixed organic-rich carbonate and shale rocks in Mesopotamian Basin, Iraq: Insights for multisource rocks evaluation. *Journal of Petroleum Science and Engineering*, 216, p.110832.
- Imam, T.S., **Abdel-Fattah, M.I.**, Tsuji, T. and Hamdan, H.A., 2022. Mapping the geological structures in the Ras El Ush field (Gulf of Suez, Egypt), based on seismic interpretation and 3D modeling techniques. *Journal of African Earth Sciences*, 193, p.104596.
- Embaby, M. A., Ghaffar, M. A., **Abdel-Fattah, M.I.**, Mohamed, W., 2022. Integration of surface and subsurface data to optimize the hydrocarbon exploration in the NW Red Sea, Egypt.

- SEG workshop “The Red Sea: Unlocking Future Hydrocarbon Potential” 20–22 March 2022 | Hurghada, Egypt.
- Sabry, M., **Abdel-Fattah, M.I.**, Elshafei, M., 2022. Reservoir rock typing for Aburoash (G) member at East Alam Elshawish area, Western Desert, Egypt. The 8th Young Researchers Conference "Future shaping....What is after the pandemic?". Ismailia, Egypt 3-4 April 2022.
 - Kamel, I., **Abdel-Fattah, M.I.**, El-masry, M., Shendi, E., 2022. Evaluation of petrophysical characteristics of A/R (G) reservoir, WON-X oil field, North Western Desert, Egypt. The 8th Young Researchers Conference "Future shaping....What is after the pandemic?". Ismailia, Egypt 3-4 April 2022.
 - **Abdel-Fattah, M.I.**, Sen, S., Abuzied, S.M., Abioui, M., Radwan, A.E. and Benssaou, M., 2022. Facies analysis and petrophysical investigation of the Late Miocene Abu Madi sandstones gas reservoirs from offshore Baltim East field (Nile Delta, Egypt). *Marine and Petroleum Geology*, 137, p.105501.
 - **Abdel-Fattah, M.I.**, Mahdi, A.Q., Theyab, M.A., Pigott, J.D., Abd-Allah, Z.M. and Radwan, A.E., 2022. Lithofacies classification and sequence stratigraphic description as a guide for the prediction and distribution of carbonate reservoir quality: A case study of the Upper Cretaceous Khasib Formation (East Baghdad oilfield, central Iraq). *Journal of Petroleum Science and Engineering*, 209, p.109835.
 - Al-Dolaimy, A.M., Al-Mallah, A.Y., **Abdel-Fattah, M.I.** and Al-Beyati, F.M., 2021. Source Rock Characteristic of Sargelu and Kurrachine Formations from the Selected Wells in Northern Iraq. *The Iraqi Geological Journal*, pp.60-74.
 - **Abdel-Fattah, M.I.**, Attia, T.E., Abd El-Aal, M.H. and Hanafy, M.I., 2021. Seismic interpretation of the Late Albian-Early Cenomanian Bahariya reservoirs of Burg El Arab oil field for tectonic evaluation: a case study from Western Desert, Egypt. *Arabian Journal of Geosciences*, 14(5), pp.1-11.
 - **Abdel-Fattah, M.I.**, Shendi, E.A.H., Kaiser, M.F. and Abuzied, S.M., 2021. Unveiling geothermal potential sites along Gulf of Suez (Egypt) using an integrated geoscience approach. *Terra Nova*, 33(3), pp.306-319.
 - Fadul M., El Dawi M., and **Abdel-Fattah M.**, 2020. Seismic interpretation and tectonic regime of Sudanese Rift System: implications for hydrocarbon exploration in Neem field (Muglad Basin). *Journal of Petroleum Science and Engineering*, 191, p.107223.
 - Abuzied S.M., Kaiser M.F., Shendi E.H., and **Abdel Fattah M.I.** (2020): Multi-criteria decision support for geothermal resources exploration based on remote sensing, GIS and geophysical techniques along the Gulf of Suez coastal area, Egypt. *Geothermics*, 88, p.101893.
 - **Abdel Fattah M.I.**, and Abd-Allah Z. (2020): Shale gas evaluation of the Middle Jurassic Khatatba Shale Formation in the Obaiyed field (Western Desert, Egypt). 13th International Geological Conference (SSG 2020), 3-6 March, 2020, Jeddah, Saudi Arabia.
 - **Abdel Fattah M.I.**, Shendi E.H., and Albrkawy A., 2020. Structural oil entrapment styles of the Miocene reservoirs in Sudr field (Gulf of Suez, Egypt): a branch of dry well analysis. 13th International Geological Conference (SSG 2020), 3-6 March, 2020, Jeddah, Saudi Arabia.
 - Elkhadragy A., Shendi E.H., Kaiser M.F., **Abdel Fattah M.I.**, and El-Nekhiely I.N. (2020): Estimation of Curie Point Depth, heat flow and Geothermal gradient deduced from aeromagnetic data over Sinai, Gulf of Suez and north eastern Desert areas, North – Eastern Egypt. 13th International Geological Conference (SSG 2020), 3-6 March, 2020, Jeddah, Saudi Arabia.
 - Shendi E.H., Kaiser M.F., Geriesh M. H, **Abdel Fattah M.I.**, and El-Nekhiely, I.N. (2020): Detailed geophysical and hydro-geochemical studies on Hammam Faroun geothermal site, Gulf

- of Suez, Sinai, Egypt. 13th International Geological Conference (SSG 2020), 3-6 March, 2020, Jeddah, Saudi Arabia.
- Shendi E.H., Kaiser M.F., **Abdel Fattah M.I.**, and El-Nekhiely I.N. (2020): Discovery of Promising Geothermal Sites along the Eastern Coast of the Gulf of Suez, South Sinai, Egypt (A Case Study), TESA 2020 conference, 10-11 September 2020, Rome, Italy.
 - **Abdel-Fattah M.**, Pigott J., and El-Sadek M. (2020): Integrated seismic attributes and inversion for reservoir characterization: a case study from Wadi field (Abu Gharadig Basin, Egypt). *Journal of African Earth Sciences*, 161, p.103661.
 - Abd-Allah Z., Wan Hasiyah Abdullah, and **Abdel-Fattah M.** (2019): Assessment of Eocene, Paleocene and Cretaceous Source Rocks in the West Feiran Area, Offshore Gulf of Suez, Egypt. *Journal of Petroleum Science and Engineering*, 180, pp.756-772.
 - Mahdi, A.Q., Al-Beyati, F.M., Al Tarif, A.M., Shendi, E.A.H. and **Abdel-Fattah, M.I.**, 2019. Palynofacies and Paleoenvironment investigation of the Hauterivian–Early Aptian Ratawi and Zubair formations, Balad oilfield, Central Iraq. *Tikrit Journal of Pure Science*, 24(6), pp.74-80.
 - **Abdel-Fattah M.**, Metwalli F., and Mesilhi E. (2018): Static reservoir modeling for the oilfields development in South Umbarka Area, Western Desert, Egypt. *Journal of African Earth Sciences*, 167, pp. 120-130.
 - Alrefaee H., Gosh S., and **Abdel-Fattah M.** (2018): 3D seismic characterization of the polygonal fault systems and its impact on fluid flow migration: An example from the Northern Carnarvon Basin, Australia. *Journal of Petroleum Science and Engineering*, 167, pp.120-130.
 - **Abdel-Fattah M.**, Pigott J., and Abd-Allah Z. (2017): Integrative 1D-2D Basin Modeling of the Cretaceous Beni Suef basin, Western Desert, Egypt. *Journal of Petroleum Science and Engineering*, 153, 297-313.
 - **Abdel-Fattah M.**, Shendi E., El-Masry M., Ramadan Y., Afify W. and El-Sadek M. (2016): Lithofacies prediction from seismic inversion in a heterogeneous reservoir: Integrated approach for Wadi oil field (WD33), North Western Desert, Egypt. The 8th Mediterranean Offshore Conference and Exhibition (MOC 2016), Alexandria, Egypt.
 - Ghanem S., Adam I., and **Abdel-Fattah M.** (2016): Characterization of petrophysical flow units in sandstone reservoirs: An example from Abu Madi Formation (offshore Nile Delta, Egypt) . The 19th International Conference on Petroleum, Mineral Resources and Development (2016), Cairo, Egypt.
 - Ali M., Gamal A., and **Abdel-Fattah M.** (2016): Oil Shale: ways to cost down of the production process. The 19th International Conference on Petroleum, Mineral Resources and Development (2016), Cairo, Egypt.
 - **Abdel-Fattah M.**, Alrefaee H. and Benmadi M. (2015): Basement Imaging: Insights throughout the Unconventional Shale Reservoirs. AAPG MID-CONTINENT Section Meeting, Tulsa, OK (USA).
 - Metwalli F., **Abdel-Fattah M.**, El-Masry M., and Mesilhi E. (2015): Impact of subsurface structures and reservoir characteristics on the oil field development of South Umbarka area, Western Desert, Egypt. *Earth Sciences*.
 - **Abdel-Fattah, M.** (2015): Impact of Depositional Environment on Petrophysical Reservoir Characteristics in Obaiyed Field, Western Desert, Egypt. *Arabian Journal of Geosciences*, 8(11), 9301-9314.
 - **Abdel-Fattah, M. and** Tawfik A. (2015): 3D Geometric Modeling of the Abu Madi Reservoirs and Its Implication on the Gas Development in Baltim Area (Offshore Nile Delta, Egypt). *International Journal of Geophysics*.

- **Abdel-Fattah M.**, Gameel M., Awad S. and Ismail A. (2015): Seismic Interpretation of the Aptian Alamein Dolomite in the Razzak Oil Field, Western Desert, Egypt. *Arabian Journal of Geosciences*, 8(7), 4669-4684.
- **Abdel-Fattah M.**, and Pigott J. (2014): Messinian RST's: The Key to Exploration Future Success in Nile Delta (Egypt) Incised Valleys. AAPG 2014 Annual Convention and Exhibition, Istanbul, Turkey.
- Pigott J., Williams M., **Abdel-Fattah M.**, and Pigott K. (2014): The Messinian Mediterranean Crisis: A Model for the Permian Delaware Basin? AAPG 2014 Annual Convention and Exhibition, Istanbul, Turkey.
- **Abdel-Fattah M.**, Pigott J., and Abd-Allah Z. (2014): Basin Modeling and Petroleum System Analysis of the West Beni Suef Basin, Egypt. AAPG 2014 Annual Convention and Exhibition, Istanbul, Turkey.
- **Abdel-Fattah M.**, and Alrefae H. (2014): Diacritical Seismic Signatures for Complex Geological Structures: Case Studies from Shushan Basin (Egypt) and Arkoma Basin (USA). *International Journal of Geophysics*.
- Gameel M., Awad S., Ismail A., and **Abdel-Fattah M.** (2014): Geological and Petrophysical-Analysis to predict the Uncertainty Exploration of the Alamein reservoir, Razzak area, Western Desert, Egypt. *Egyptian Journal of Geology*.
- Makky A., El Sayed M., Abu El-Ata A., Abd El-Gaied I., **Abdel-Fattah M.**, Abd-Allah Z. (2014): Thermal Maturity Levels and Timing of Hydrocarbon Generation of Some Cretaceous Sequence, West Beni Suef Concession, Western Desert, Egypt. *Egyptian Journal of Applied Geophysics*.
- **Abdel-Fattah, M.I.**, 2014. Petrophysical characteristics of the Messinian Abu Madi Formation in the Baltim East and North fields, offshore Nile Delta, Egypt. *Journal of Petroleum Geology*, 37(2), pp.183-195.
- Pigott, J.D. and **Abdel-Fattah, M.I.**, 2014. Seismic stratigraphy of the Messinian Nile Delta coastal plain: Recognition of the fluvial Regressive Systems Tract and its potential for hydrocarbon exploration. *Journal of African Earth Sciences*, 95, pp.9-21.
- Makky A., El Sayed M., Abu El-Ata A., Abd El-Gaied I., **Abdel-Fattah M.**, Abd-Allah Z. (2014): Source Rock Evaluation of Some Upper and Lower Cretaceous Sequences, West Beni Suef Concession, Western Desert, Egypt. *Egypt. Egyptian Journal of Petroleum*, 23(1), pp.135-149.
- **Abdel-Fattah, M.I.** and Slatt, R.M., 2013. Sequence stratigraphic controls on reservoir characterization and architecture: case study of the Messinian Abu Madi incised-valley fill, Egypt. *Central European Journal of Geosciences*, 5(4), pp.497-507.
- Pigott J. and **Abdel-Fattah M.** (2013): Messinian Crisis: Seismic Stratigraphic View from the Egyptian Clastic Coastal Plain. 40th CIESM Congress (The Mediterranean Science Commission) - in Marseille, France.
- **Abdel-Fattah M.** and Pigott, J. (2013): Messinian Seismic Stratigraphy of the Nile Delta: Identification of the RST (Regressive Systems Tract). AAPG 2013 Annual Convention and Exhibition, Pittsburgh, Pennsylvania, USA.
- Tawfik A., **Abdel-Fattah M.** and Ismael S. (2013): 3D Geometrical Modeling of the Late Messinian Abu Madi Reservoirs, Baltim Fields, Offshore Nile Delta, Egypt. First Young Researchers Conference at SCU, Ismailia, Egypt (*Arabian Journal of Science* 2013).
- Maky A., El Sayed M., Abu El-Ata A., Abd El-Gaied I., **Abdel-Fattah M.**, Abd-Allah Z. (2013): Source Rock Evaluation of Some Upper and Lower Cretaceous Sequences, West Beni

- Suef Concession, Western Desert, Egypt. The 16th International Conference on Petroleum, Mineral Resources and Development (2013), Cairo, Egypt.
- Gameel M., Awad S., Ismail A., and **Abdel-Fattah M.** (2012): Petrophysical heterogeneity of the Alamein reservoir, Razzak area, Western Desert, Egypt. The 50th Annual Scientific Meeting Conference of the Egyptian Mineral Resources Authority (EMRA-2012), Cairo, Egypt.
 - **Abdel-Fattah M.**, Mohamed M., and Yakout N. (2012): Petroleum Systems Modeling of the Abu El-Gharadig Basin, Western Desert, Egypt. Geology of the Nile Basin Countries Conference (GNBCC-2012), Alexandria, Egypt.
 - **Abdel-Fattah M.**, and Barakat M. (2011): Clarify the Effects of the Structure and Lithology on Evaluate the Hydrocarbon Potentialities on Nukhul Formation, Abu Rudeis Area, Gulf of Suez, Egypt. Afrikagruppe deutscher Geowissenschaftler (AdG) 2011, Würzburg, Germany.
 - **Abdel-Fattah M.** (2010): Middle Jurassic Structure and Stratigraphy in the Shushan Basin, Western Desert, Egypt: petroleum geological significance of integrated subsurface data. GSSPE Student Technical Conference, Wietze, Germany 2010.
 - **Abdel-Fattah M.**, and Dominik W. (2010): Depositional Environment and Reservoir Characterization of Upper Safa in the Obaiyed Field, Western Desert, Egypt. 25th Sediment Meeting, Potsdam, Germany.
 - **Abdel-Fattah M.**, and Abuzied S. (2010): Integrated Approach for Groundwater Exploration in the South Sinai, Egypt, Using Remote Sensing and GIS. Africa group of German Geoscientists annual convention 2010. (Johann Wolfgang Goethe-Universität Frankfurt am Main Institut für Physische Geographie), Germany.
 - **Abdel-Fattah M.**, Dominik W., Shendi E., Gadallah M., and Rashed M. (2010): 3D integrated reservoir modelling for Upper Safa gas development in Obaiyed Field, Western Desert, Egypt. 72nd EAGE Conference Barcelona, Spain 2010.
 - **Abdel-Fattah M.**, and Shendi E. (2009): Detection of Buried Pipes Using Geomagnetic Methods in the Abu Mady Area, Nile Delta, Egypt. Africa group of German Geoscientists annual convention 2009. (Technische Fachhochschule (TFH) Berlin), Germany.
 - **Abdel-Fattah M.**, Dominik W., Shendi E., Gadallah M., and Rashed M. (2009): 3D Seismic Structural Modelling of Upper Safa Reservoir in the Obaiyed Field, Western Desert, Egypt. Africa group of German Geoscientists annual convention 2009. (Technische Fachhochschule (TFH) Berlin), Germany.
 - Shendi E., Saber H., and **Abdel-Fattah M.** (2008): Application of Well Logging and D.C. Resistivity Techniques to study Groundwater Occurrences at Abu Mady Area, Nile Delta , Egypt. Egyptian Journal of Geology, Cairo, Egypt.

Conferences Attended:

- Africa group of German Geoscientists annual convention 2009. (Technische Fachhochschule (TFH) Berlin), Germany.
- 71nd EAGE Conference Amsterdam, Netherlands 2009.
- 72nd EAGE Conference Barcelona, Spain 2010.
- Africa group of German Geoscientists annual convention 2010. (Johann Wolfgang Goethe-Universität Frankfurt am Main Institut für Physische Geographie), Germany.
- 25th Sediment Meeting, Potsdam, Germany.
- GSSPE Student Technical Conference, Wietze, Germany 2010.

- Geology of the Nile Basin Countries Conference (GNBCC-2012), Alexandria, Egypt.
- The 50th Annual Scientific Meeting Conference of the Egyptian Mineral Resources Authority (EMRA-2012), Cairo, Egypt.
- The 16th International Conference on Petroleum, Mineral Resources and Development (2013), Cairo, Egypt.
- AAPG 2013 Annual Convention and Exhibition, Pittsburgh, Pennsylvania, USA.
- 40th CIESM Congress (The Mediterranean Science Commission) 2013 - in Marseille, France.
- AAPG 2014 Annual Convention and Exhibition, Istanbul, Turkey.
- AAPG MID-CONTINENT Section Meeting, Tulsa, OK (USA).
- The 19th International Conference on Petroleum, Mineral Resources and Development (2016), Cairo, Egypt.
- The 8th Mediterranean Offshore Conference and Exhibition (MOC 2016), Alexandria, Egypt.
- 13th International Geological Conference (SSG 2020), 3-6 March, 2020, Jeddah, Saudi Arabia.
- International Conference & Exhibition for Science (ICES2023), February 6–8, 2023 in Riyadh, Saudi Arabia.
- ADIPEC; October 2-5, 2023 | Abu Dhabi, UAE

Supervision:

Master Thesis

- Shaza Elyazori (Sharjah National Oil Corporation (SNOC)): Exploration of Utilizing Gas/Oil Wells for Shaft Solid Gravitational Energy Storage. (University of Sharjah-2024)
- Mahmoud Jumah (Cooperation with Waha Oil Company (WOC), Libya): Reservoir Characterization of Hamid Oil Field, Eastern Sirte Basin, Libya. (Suez Canal University-2018)
- Hager Atef (Cooperation with West Bakr Petroleum Company): Evaluation of Oligo-Miocene Reservoirs to interpret their well-log Response Anomalies in Arta oil Field, Gulf of Suez, Egypt. (Suez Canal University-2018)
- Mahmoud Ismail Hanafy (Cooperation with Borg El Arab Petroleum Company): Seismic Interpretation and Reserve Estimation of Burg El-Arab (BEA) Field, Western Desert, Egypt. (Port Said University-2016)
- Ahmed Hassan (Belayim Petroleum Company): New 3D seismic interpretation of Miocene succession to enhance the oil production in Belayim Land Area, Gulf Of Suez, Egypt. (Suez Canal University-2016)
- Dina Mokhtar (Cooperation with Rashid Petroleum Company): Integration of Seismic and petrophysics techniques to study hydrocarbon potentiality at Saurus field, West Nile Delta deep marine, Mediterranean Sea, Egypt. (Suez Canal University-2016)
- Ahmed Albrkawy (Cooperation with General Petroleum Company): Dry Wells Analysis of Sudur Oil Field, Gulf of Suez, Egypt. (Suez Canal University-2016)
- Tarek Galhoom (Khalda Petroleum Company): Assessment of Shale Gas Potentiality of Jurassic Sediments in Matruh Basin, Northern Western Desert, Egypt. (Suez Canal University-2015)
- El Sayed Ismail (Halliburton Company) (Cooperation with Khalda Petroleum Company): Reservoir Petrophysics of South Umbarka Oil Field, Western Desert, Egypt. (Suez Canal University- 2011)

- Tarek Imam (Cooperation with Gebel El Zeit Petroleum Company): Seismic Studies on Gebel El-Zeit Basin, Gulf of Suez with Emphasis on its Subsurface Structure (Suez University-2013)
- Ahmed Tawfik (Cooperation with Belayim Petroleum Company): Geological and Geophysical Evaluation of Gas Reservoirs in Baltim Area, North Nile Delta, Egypt. (Suez University-2011)

PhD Thesis

- Marwan Sabry (Cooperation with Petrosannan Company): Development of oil fields at East Alam El-Shawish area, North Western Desert of Egypt using integrated geological and geophysical interpretations. (Suez Canal University- 2020)
- Ismael Ahmed (Cooperation with Qarun Petroleum Company): Integrated Geological and Geophysical Studies to evaluate the Cretaceous Reservoir in WON-X Oil Field, Beni Suef Basin, Western Desert, Egypt. (Suez Canal University- 2019)
- Islam Nagy (Cooperation with Egyptian Ministry of Scientific Research): Integrated Geophysical, Remote Sensing and GIS studies for Development of sustainable geothermal energy resources along the Gulf of Suez coastal regions. (Suez Canal University- 2018)
- Ahmed Samy (Cooperation with Ganoub El-Wadi Petroleum Holding Company): Seismic Attributes, Seismic Inversion and Neural Network for Reservoir Characterization in North Red Sea Area, Egypt. (Ain Shams University-2017)
- Adnan Mahdi (Cooperation with University of Kirkuk-Iraq): Petroleum System Modeling of the Balad Oil Field, North Western Iraq. (Suez Canal University-2016)
- Mohamed Sobhy (Cooperation with Khalda Petroleum Company): Geophysical Studies and Reservoirs Characterization of Wadi Field (WD33) –North Western Desert-Egypt. (Suez Canal University-2015)
- Ahmed Tawfik (Cooperation with Qarun Petroleum Company): Source Rock Evaluation and Petroleum System Modeling of Beni Suef Basin, Egypt. (Suez University-2015)
- Maged Gameel (Borg El Arab Petroleum Company): Petrophysical and 3D Basin Modeling of Alamein Reservoir, Razzak area, Western Desert, Egypt. (Ain Shams University-2011)

International Trainer:

- | | | | |
|---|---------------------------------|--------|-----------|
| ○ 3D Seismic Data Interpretation | Multinational Oil Companies | Egypt | 2016 |
| ○ 3D Static Reservoir Modeling | Selftraining Organization (STO) | Egypt | 2016-2019 |
| ○ Petrophysical Analysis and Formation Evaluation | On-line consulting | Canada | 2017 |
| ○ Reservoir Characterization (Muglad Basin) | On-line consulting | Sudan | 2018 |
| ○ Geological Reservoir Modeling | Multinational Oil Companies | Egypt | 2018 |
| ○ Geological Modeling Workshop for Integrated Reservoir Studies | Kuwait Oil Company (KOC) | Kuwait | 2019 |

- Sequence Stratigraphy: Concepts and Practical Applications for Petroleum Exploration and Production Selftraining Organization Egypt (STO) 2019

Awards, Scholarships & Projects

- The 2nd place of IBA-AAPG (2024) as UOS students' advisor in the Middle East region (Saudi Arabia).
- The 3rd place of IBA-AAPG (2023) as UOS students' advisor in the Middle East region (Bahrain).
- Competitive research project: "Multidisciplinary study on the thermal and mineralogical properties of sedimentary and igneous rocks in the vicinities of Sharjah Emirate and within UAE", funded by the University of Sharjah (2023-2025).
- PI for seed research project: "Integrated geological and geophysical techniques to assess unconventional shale reservoirs as a future resource of natural gas", funded by the University of Sharjah (2022-2024).
- Co-Partner for capacity building project with three European universities: "Geothermal Energy Capacity Building in Egypt", funded by the European Union (Erasmus 2020).
- Co-PI for research project: "Prospecting and exploitation of geothermal water as a source of renewable energy: a case study along the Gulf of Suez coastal zones in Egypt", funded from STDF (2018-2020).
- The 3rd place of IBA-AAPG (2018) as exploration manager in Africa section.
- Post-doctor Fellowship: (two years 2013-2015, ConocoPhillips School of Geology and Geophysics, University of Oklahoma, USA).
- Best Article Award 2012: The 50th Annual Scientific Meeting Conference of the Egyptian Mineral Resources Authority (EMRA-2012), Cairo, Egypt.
- ParOwn Post-doctor Fellowship: (six months 2012, ConocoPhillips School of Geology and Geophysics, University of Oklahoma, USA).
- German Academic Exchange Services (DAAD): (three months 2010, Technical University of Berlin, Germany).
- GSSPE student grant (GSSPE Technical Conference, Wietze, Germany 2010).
- EAGE student grant 2010, Barcelona, Spain.
- SEG/Exxon Mobil Student Education Program grant (SEP 2009, Amsterdam, Netherland).
- PhD. Scholarship (two years 2008, Technical University of Berlin, Germany) funded from the High Education Ministry of Egypt.

Language Skills:

- Arabic: mother tongue
- English: fluent
- German: good
- French: fair

Memberships:

- American Association of Petroleum Geologists (AAPG)
- Society of Exploration Geophysicists (SEG)
- German Section of the Society of Petroleum Engineers (GSSPE)
- European Association of Geoscientists & Engineers (EAGE)
- Geologische Vereinigung e.V. (GV)

Computer Skills:

- PETREL (SCHLUMBERGER'S RESERVOIR MODELLING SOFTWARE)
- INTERACTIVE PETROPHYSICS
- TECHLOG
- BASINMOD
- PETROMOD
- HAMPSON RUSSELL
- OPENDTECT
- AASPI (ATTRIBUTE ASSISTED SEISMIC PROCESSING & INTERPRETATION)
- WELLCAD
- NEURALOG
- SURFER
- @RISK
- CRYSTAL BALL
- ARC GIS
- ENVI