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Field of Specialization

- Geophysical engineering studies
- Application of Geophysics in Archaeological studies
- Environmental geophysics studies
- Groundwater investigation studies
- Geotechnical & environmental engineering studies
- Applied geophysics & Theoretical studies of potential field

Education

- 15 July 2023 - Present **PhD Student in Geophysics - Cairo University**
Title of the thesis “Developing new optimization algorithms by applying different geophysical datasets for modeling and evaluation subsurface reservoirs”.
- 10 October 2020 - 01 June 2023 **Master degree in Geophysics - Cairo University**
Title of the thesis “Application of Potential Field Data in Natural Resources Development: Theory and Case Studies”.
- 21 September 2013 - 30 May 2017 **Bachelor of science degree in Geophysics - Cairo University**

Employment Experiences

- Lecturer assistant in the geophysics department, Cairo University (2023-Present).
- Demonstrator in the geophysics department, Cairo University (2019-2023).
- Recorder observer assistant, Geofizyka Torun (2018-2019).
- QC inspector (Junior client representative), Apache (2017-2018).

Publications

- Essa, K.S., Abo-Ezz, E.R., Anderson, N.L. et al. Magnetic inversion approach for modeling data acquired across faults: various environmental cases studies. Acta Geophys. 72, 1819–1845 (2024). <https://doi.org/10.1007/s11600-023-01184-4>
- Elhussein, M., Abo-Ezz, E.R., Gomaa, O.A. et al. Two-sided fault parameter assessment through the utilization of a particle swarm optimizer to different gravity horizontal gradients-orders with application to various cases studies. Environ Earth Sci 82, 502 (2023). <https://doi.org/10.1007/s12665-023-11081-0>
- Essa, K., Elhussein, M., & Gomaa, O. (2022). Fast Inversion Approach for Modeling Gravity Data: Varying Synthetic and Real Cases. Journal of Applied Geophysics (Cairo), 21(1), 20-44. <https://doi.org/10.21608/jag.2022.291608>

Software Skills

- Microsoft Office, Surfer, MATLAB, & Geosoft Oasis Monaj.