

DR. ADEL KOTB

ASSOCIATE PROFESSOR
OF APPLIED GEOPHYSICS

CONTACT

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SIENTIFIC INFORMATION

- ★ https://orcid.org/0000-0002-8188-3188
- ✓ https://www.scopus.com/authid/d
 etail.uri?authorld=55614316800
- https://www.webofscience.com/ wos/author/record/V-1789-2018

SKILLS

- ✓ Research and publication
- ✓ Class lectures
- ✓ Student assessments
- ✓ Academic advising
- ✓ Remote instruction
- ✓ Trainina
- ✓ Academic Accreditation
- ✓ Field Measurements.
- ✓ Professional Data Interpretation.
- ✓ Writing scientific reports.

Education			
Faculty	University	Degree	Date
Science	Ain-Shams	Ph. D.	2013
Science	Al-Azhar	M. Sc.	2007
Science	Assiut	B. Sc.	2001
Employment History			
Employer	Position	field	year
Helwan University	Associate professor	Geophysics	2022
Helwan University	Assistant professor	Geophysics	2015
Helwan University	Assistant Lecturer	Geophysics	2015
Desert Research Centre	Researcher	Geophysics	2013
Desert Research Centre	Assistant Researcher	Geophysics	2007
Desert Research Centre	Researcher Assistant	Geophysics	2002
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Societies membership

Active Member of Society of Exploration Geophysicists (SEG) ID: 000000482467
Member of the Egyptian geophysical society (EGS) ID:1024
Member of the American Association of Petroleum Geologists (AAPG) ID: 10157580.
Member of the American geological society

Editorial Board Memberships and reviews

Journal Title	My Role
Journal of Applied Geophysics (Cairo)	Associate Editor
Journal of Control and Systems Engineering	Editorial Member
Heliyon	Reviewer
Journal of African Earth Sciences	Reviewer
Journal of Earth Science	Reviewer
Modeling Earth Systems and Environment	Reviewer
Arabian Journal of Geosciences	Reviewer
International Journal of Geosciences	Reviewer
Kuwait Journal of Science	Reviewer
American Journal of Space Science	Reviewer
Bulletin of Faculty of Science, Zagazig University	Reviewer

Faculty Activities

<u>Faculty Activities</u>	
Description	Year
Geophysics program coordinator	2016 - 2017
Geology Department general coordinator	2017-2018
Deputy of Quality Assurance unite	2016- till now
Advisor of AAPG-HUSC (our team won the north Africa 1st place and	2016 -2020
African 2nd place in IPA 2017)	
Advisor of Helwan University SEG student chapter	since 2017
Certified trainer at Faculty and Leadership Development Centre	since 2016
Supervision on the Students during Summer Training.	since 2016

Fields of Interest

The main area of interest is the application of geoelectrical and electromagnetic as well as Induced Polarization/Spectral Induced Polarization methods for geological, hydrogeological, environmental and geotechnical problems, as well as Mineral (Gold) exploration, with special emphasis on forward and inverse modelling techniques especially near surface and deep groundwater exploration, petrophysical and hydrogeological aquifer characterization and water management at arid, semi-arid and coastal aquifers as well as modeling electrical spectrometry of earth materials. Moreover, the application of integrated geophysical tools and joint inversion techniques for hydro-geophysical investigation.

Professional Summary

Focused in Applied and Environmental Geophysics Professor offering 8 years of success in academic roles. Supports students in exploring course content, degree paths and potential career choices. Guides progress through expertly crafted curriculum and continuous drive to provide equitable and engaging instruction.

Additional Information

- Since 2002, involved as a research team member of several national, international and private
 projects regarding application of geophysical methods for groundwater exploration, water
 management, aquifer characterization, desertification process monitoring, Sustainable
 development, engineering, geotechnical and environmental problems.
- Conducted intensive data acquisition, processing, modeling and interpretation of geoelectric
 and electromagnetic (VES, 2D/3D ERT, SP, IP/SIP, VLF, TDEM and MT). geomagnetic and
 seismic refraction measurements.
- Conducting private hydrogeological, environmental and geotechnical projects as a freelance Geologist/Geophysicist.

<u>Publications</u>				
Paper Name	Publisher	Journal name	Date	
Geophysical and Hydrogeological applications for groundwater evaluation, East El-Minia area, Upper Egypt	FISEVIER	Journal of African Earth Sciences, Volume 184, December 2021. https://doi.org/10.1016/j.jafrearsci.2021.104384	2021	
Integrated remote sensing, VES, and TEM to evaluate the Rafah coastal aquifers for sustainable development—a case study	Springer	Arabian Journal of Geosciences (2021) 14: 1697 https://doi.org/10.1007/s12517-021-08106-y	2021	
Utilizing ERT and GPR to Distinguish Structures Maleficence the Constructions in the New administrative Capital, Egypt.	Science PG Science Addring Cross	Earth Sciences 2021; 10(5): 234-243 http://www.sciencepublishinggroup.com/j/earth doi: 10.11648/j.earth.20211005.15 ISSN: 2328-5974 (Print); ISSN: 2328-5982 (Online)	2021	
Near-surface structures elicitation from Aeromagnetic data of Northwest Nasser lake area, Egypt	FSAP STATE OF THE PARTY OF THE	Egy. J. Appl. Geophys. ISSN 1687-1251, Vol. 20, No. 1, March 2021, 69-82.	2021	
Application of Time Domain Electromagnetic Survey to Detect Fractured Limestone Aquifer in Desert Fringes, West Assiut, Egypt	Taylor & Francis Taylor & Francis Group	NRIAG Journal of Astronomy and Geophysics (TJAG)	2021	
Shallow Aquifer Potentiality Using Resistivity and Electromagnetic Methods at Baqbaq area, Northwestern Coast, Egypt	Springer	Haging Regulation Helpin Hilliconte, Heading Hilliconte, Heading Heading Hilliconte, Heading H	2020	
Explore the Suitability of Rafah Coastal Aquifers for sustainable development using Geophysics and Remote Sensing	Springer	2ND CONFERENCE OF THE ARABIAN JOURNAL OF GEOSCIENCES (CAJG) 25-28 NOVEMBER 2019, SOUSSE, TUNISIA	2019	
Using GPR, ERT and SSR to Detect the Shallow Subsurface Structures in the New Administrative Capital, Egypt.	EGU European Geoscientes Union	Geophysical Research Abstracts	2019	
Groundwater condition based on geoelectrical technique and Dar Zarrouk parameters between El Alamein and El Dabaa - Egypt	Springer	Arab J Geosci (2018) 11: 596. https://doi.org/10.1007/s12517- 018-3947-y	2018	
Exploring The Groundwater Possibilities In Wadi West Komombo- The Desert Fringes Of Aswan Governorate.	IOSR Journals International Organization of Scientific Research	Journal of Applied Geology and Geophysics Volume 6, Issue 3 Ver. III (May. – June. 2018), PP 33-44	2018	
Using Forward Modeling in Calculating the Shortest Distance between the Shot Point and the First Geophone That Senses the Refracted Head Waves	UGES	INT. J. OF GEOL. & EARTH SCI., ISSN 2395-647X WWW.IJGES.COM Vol. 4, No. 2,	2018	
Geoelectrical Contribution to Delineate the Groundwater and Subsurface Structures on Tushka area, Egypt.		NRIAG Journal of Astronomy and Geophysics httpS://doi.org/10.1016/j.nrjag.2017.10.003	2017	
Impact of the geological structures on the groundwater potential using geophysical techniques in West Bani Mazar area, El Minia - Western Desert, Egypt		Journal of African Earth Sciences 130 (2017) 161-173, http:// D x.doi.org/10.1016/j.jafrearsci.2017.03.024	2017	
Integrated geophysical study to explore the groundwater in the tectonic plain between Wadi El Mahash and Wadi Um Markhah, Southwest Sinai, Egypt	Springer	Arabian Journal of Geosciences, ISSN 1866-7511, Volume 7, Number6,	2014	
Land Magnetic Studies for Delineating the Basement Relief and Subsurface Structure in Tushka, South Egypt	ASSIUT UNIVERSITY	ASSIUT UNIV. J. OF GEOLOGY 41(2), P-P	2012	

There are 7 papers under review Now in international Journals

Mendeley citation Manager and academic social network Helwan university Training course 2021 13th International Geological Conference Jeddah – Saudi Arabia Conference 2020 2nd Conference of the Arabian Journal of Geosciences Sousse - Tunisia Conference 2019 Mational Authority for Quality	Name	Location	Type	year
13th International Geological Conference 2nd Conference of the Arabian Journal of Geosciences 2nd Conference of the Arabian Journal of Geosciences 2019 External Review: Faculties and Institutes of Higher Education 2019 Program/ Course Specifications and Assessment of Intended Learning Outcomes (ILOs): Faculties and Institutes of Higher Education 2019 Self- Evaluation: Faculties and Institutes of Higher Education 2019 Self- Evaluation: Faculties and Institutes of Higher Education 301 Self- Evaluation: Faculties and Institutes of Higher Education 302 Self- Evaluation: Faculties and Institutes of Higher Education 303 Self- Evaluation: Faculties and Institutes of Higher Education 304 Self- Evaluation: Faculties and Institutes of Higher Education 305 Self- Evaluation: Faculties and Institutes of Higher Education 307 Self- Evaluation: Faculties and Institutes of Higher Education 308 Self- Evaluation: Faculties and Institutes of Higher Education 308 Self- Evaluation: Faculties and Institutes of Higher Education 308 Self- Evaluation: Faculties and Institutes of Higher Education 308 Self- Evaluation: Faculties and Institutes of Higher Education 309 Self- Evaluation: Faculties and Institutes of Higher Education 300 (NAQAAE) 3019 Training course 3019 Self- Evaluation: Faculties and Institutes of Higher Education 3019 Self- Evaluation: Faculties and Institutes of Higher Education 3019 NRIAG	Mendeley citation Manager and academic social network	Online webinar	workshop	2021
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Teac	hing

Course Name	Term	Program/level /Faculty	Academic year
Environmental Geophysics	2nd	Geophysics/4th level/Science	2021/2022
Paleomagnetism (Practical)	2nd	Geophysics/4th level/Science	2014/2015
Geodesy (Practical)	2nd	Geophysics/4th level/Science	2014/2015
General Geophysics 2 (Practical)	2nd	Geology/ 3rd level / Science	2014/2015
General Geophysics 1 (Practical)	1st	Geology/ 3rd level / Science	2015/2016
Mathematical Geophysics 1 (Practical)	1st	Geophysics/4th level / Science.	2015/2016
Spectral Analysis (Practical)	1st	Geophysics/4th level / Science.	2015/2016
Isotope Geophysics	2nd	Geophysics/2nd level/ Science	2015/2016
Applied Geophysics	1st	Pre-master	From 2016 to 2019
Theoretical Geophysics 1	1st	Geophysics/2nd level/ Science	2016/2017 till now
Computer Application in Geophysics	1st	Geophysics/2nd level / Science	2016/2017
Mathematical Geophysics 1	1st	Geophysics/4th level / Science	From 2016 to 2019
General Geophysics 2	2nd	Geology/ 3rd level / Science	From 2016 to 2022
Geophysics	2nd	Chemistry-Geology/3rd level / Science	2016/2017
Theoretical Geophysics 2	2nd	Geophysics/2nd level / Science	From 2016 till now
Mathematical Geophysics 2	2nd	Geophysics/4th level / Science	From 2015 To 2019
General Geophysics 1	1st	Geology/ 3rd level / Science	2016/2017 2017/2018
Geophysics 1 (in Arabic)	1st	Geology-Biology/4th level/ Education	From 2018 to 2021
Geophysics 2 (in Arabic)	2nd	Geology-Biology/4th level / Education	From 2018 Till now
Geophysics (in Arabic)	2nd	Biology - Geology /4th level / Education	2019/2020

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