

CURRICULUM VITÆ

of

Alhussein Adham Basheer Mohammed



PERSONAL DATA:

Name : Alhussein
Surname : Adham Basheer Mohammed.
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Another e-mail: alhussein.adham.basheer.mohammed@gmail.com

Date of Birth: 25/1/1977.

Nationality: Egyptian.

Marital Status: Married to (Dr. Nihal Ahmed Adel Zaki)

Scholar Google: <https://scholar.google.com/citations?user=7jY6fnkAAAAJ&hl=ar>

LinkedIn: <https://www.linkedin.com/in/alhussein-adham-basheer-075b4220/>

Education:

2008	Ph.D. degree in Geophysics, the faculty of Science, South Valley University, Qena, Egypt. <u>Thesis:</u> "Geophysical study on The New Qeft City, Qena, Egypt."
2003	Master of Science (M.Sc.) degree in Geophysics, Geology department, Faculty of Science, South Valley University. <u>Thesis:</u> "Application of Geophysical Techniques at New Qena City".
1999	B.Sc. degree in Geology/Geophysics, Geology dept., Faculty of Science, South Valley University.

Work Experience:

2020 till now	ASSOCIATE PROFESSOR OF APPLIED GEOPHYSICS, FACULTY OF SCIENCE, HELWAN UNIVERSITY, EGYPT.
2008-2012	ASSISTANT PROFESSOR, NATIONAL INSTITUTE OF ASTRONOMY AND GEOPHYSICS (NRIAG), HELWAN, EGYPT.
2005-2008	ASS. LECTURER, NATIONAL INSTITUTE OF ASTRONOMY AND GEOPHYSICS (NRIAG), HELWAN, EGYPT.
2002-2004	GEOLOGICAL ENGINEERER (SHOOTING AND EXPLOSION SUPERVISOR) IN ASIC COMPANY FOR

<p>2009 till now</p>	<p>ENGINEERING AND MINING (ASCOM), QENA CEMENT FACTOR, EGYPT.</p> <p>GEOPHYSICAL CONSULTANT AND COURSES' TRAINER IN MANY OIL & GAS EGYPTIAN COMPANIES SUCH AS :</p> <ol style="list-style-type: none"> 1. AMAL PETROLEUM 2. OFFSHORE SHUKEIR OIL 3. WEST BAKR 4. OPERATING COMMITTEE 5. SITRA PETROLEUM 6. GANOUB EL-WADI 7. PETROLEUM HOLDING 8. GEISUM OIL 9. GEMSA PETROLEUM 10. THARWA PETROLEUM
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List of publications

38 research paper (34 International research papers + 4 local reasearch papers):

You can see:

- https://scholar.google.com/citations?hl=ar&user=7jY6fnkAAAAJ&view_op=list_works&sortby=pubdate
- [linkedin.com/in/alhussein-adham-basheer-mohammed-075b4220](https://www.linkedin.com/in/alhussein-adham-basheer-mohammed-075b4220)

1. **Alhussein Adham Basheer**, Farouk I. Metwalli, Ahmed T. Amin, Shaimaa A. El-Dabaa (2023): A new hydrocarbon prospect determination using the seismic interpretation and petrophysical evaluation of Bahariya reservoir in Nader field, north Western Desert, Egypt, Journal of African Earth Sciences, Volume 200, April 2023, 104891.
2. **Alhussein Adham Basheer**, Raghda M. Abd Elhamid, Mostafa Toni, Amir Ismail (2023) in press: Assessment of the Geo-Engineering Suitability of Subsurface

Layers Using ERT and SSR, A case study: Combined Services Area of "Madinaty", New Cairo, Egypt, Journal of Applied Geophysics (Cairo), Volume 22, July, 2023.

3. Ahmed Kamal Alezabawy, **Alhussein Adham Basheer**, Mohamed Ali Ammar (2022): Characterization and Evaluation of Groundwater in Wadi Abu Gurdi, West Baranis area, South Eastern Desert Egypt: Geophysical and Hydrogeochemical Investigations, https://fsrt.journals.ekb.eg/article_253535.html, doi: 10.21608/FSRT.2022.152965.1067.
4. Shaimaa Ashraf El-Dabaa, Farouk Ibrahim Mitwalli, Ahmed Tawfik Amin, **Alhussein Adham Basheer**, (2022): Prediction of porosity and water saturation using a probabilistic neural network for the Bahariya Formation, Nader Field, north western desert, Egypt, Journal of African Earth Sciences, <https://doi.org/10.1016/j.jafrearsci.2022.104638>.
5. Farouk Ibrahim Mitwalli, **Alhussein Adham Basheer**, Ahmed Tawfik Amin, Shaimaa Ashraf El-Dabaa (2022): A New hydrocarbon Prospect Determination Through Seismic Interpretation and Petrophysical Evaluation of Bahariya Reservoir in Nader field, North Western Desert, Egypt. Journal of African Earth Sciences, Elsevier, DOI: 10.21203/rs.3.rs-1859565/v1. In press.
6. Adel Kotb, Maysa M. Nabeeh, **Alhussein Adham Basheer** (2022): Explore the Suitability of Rafah Coastal Aquifers for Sustainable Development Using Geophysics and Remote Sensing, Advances in Geophysics, Tectonics and Petroleum Geosciences. CAJG 2019. Advances in Science, Technology & Innovation. Springer, Cham. https://doi.org/10.1007/978-3-030-73026-0_83.
7. **Alhussein Adham Basheer** & Nouran S Salam (2022): Application of ERT and SSR for geotechnical site characterization: A case study for Resort assessment in New El Alamein City, Egypt, Co-author: Nouran S. Salama, Journal: NRIAG Journal of Astronomy and Geophysics.
8. Alaa M. Eweis, Mostaf Toni, **Alhussein Adham Basheer**, (2022): Depicting the main structural affected trends by operating aeromagnetic survey in the western part of Koraimat-Alzafarana road and surround area, Eastern Desert, Egypt, Journal of [Modeling Earth Systems and Environment](https://doi.org/10.1007/s40808-021-01265-7), <https://doi.org/10.1007/s40808-021-01265-7>.

9. Mohamed M. Gomaa, Ahmed M. Elshenawy, **Alhussein Adham Basheer**, Adel Kotb, Mostafa Moawad (2021): Electrical properties of a dry mixture of sand and shale, *Sixth International Conference on Engineering Geophysics, Virtual, 25–28 October 2021*, <https://doi.org/10.1190/iceg2021-076.1>.
10. Ahmed K Alezabawy, **Alhussein Adham Basheer**, El Sayed I. Seleim, (2021): ‘Delineation and Evaluation of the groundwater of fractured limestone aquifer at East of Al Kurimat Area, Egypt: Geophysical and hydrogeochemical constraints, *Journal of Pure and Applied Geophysics*, <https://doi.org/10.1007/s00024-021-02840-w>.
11. Adel Kotb, **Alhussein Adham Basheer**, Ahmed Nasser, Mohamed Ramah (2021): Utilizing ERT and GPR to Distinguish Structures Maleficence the Constructions in the New Administrative Capital, Egypt, *Earth Sciences*, 2021; vol. 10 (5), pages 234-243, <http://www.sciencepublishinggroup.com/j/earth>, doi: 10.11648/j.earth.20211005.15, ISSN: 2328-5974 (Print); ISSN: 2328-5982 (Online).
12. Adel Diab, Maysa Nabeh, **Alhussein Adham** (2021): Integrated remote sensing, VES, and TEM to evaluate the Rafah coastal aquifers for sustainable development—a case study, *Arabian Journal of Geosciences* (2021) 14:1697, <https://doi.org/10.1007/s12517-021-08106-y>.
13. **Alhussein A. Basheer**; Abear A. Megahed; Mohammed A. Omran; Elsayed I. Selim. (2020): Implementation of Magnetic Technique to Delineate the Subsurface Tectonic Trends of Wadi Barqa Surrounding Area, Southeast of Sinai Peninsula, Egypt., *IOSR Journal of Applied Geology and Geophysics (IOSR-JAGG, Volume, 8*, <https://doi.org/10.9790/0990-0805011523>.
14. **Alhussein A Basheer**; Ahmed K Alezabawy, (2020): Geophysical and hydrogeochemical investigations of Nubian sandstone aquifer, South East Sinai, Egypt: Evaluation of groundwater distribution and quality in arid region., *Journal of African Earth Sciences*, Elsevier, Volume 169, <https://doi.org/10.1016/j.jafrearsci.2020.103862>.
15. Sayed Mosaad & **Alhussein Adham Basheer** (2020): Utilizing the Geophysical and Hydrogeological Data for the Assessment of the Groundwater Occurrences in Gallaba Plain, Western Desert, Egypt, *Pure and Applied Geophysics*, pp 1-22, <https://doi.org/10.1007/s00024-019-02414-x>.

16. **Alhussein Adham** (2020): Employing the geophysical and hydrological data for the evaluation of the groundwater occurrences in Baharyia Oasis, Egypt, IOSR Journal of Applied Geology and Geophysics (IOSR-JAGG), Volume 8, Issue 1 Ser. II (Jan – Feb 2020), PP 23-35 www.iosrjournals.org, <https://doi.org/10.9790/0990-0801022335>.
17. **Alhussein Adham Basheer** and **Adil D. A. Kotb** (2018): Using Forward Modeling in Calculating the Shortest Distance between the Shot Point and the First Geophone That Senses the Refracted Head Waves, International Journal Of Geology and Earth Sciences, Volume 4, Issue 2, June 2018, 53 - 62 pp.http://www.ijges.com/ijgesadmin/upload/ijges_5b35c356194bf.pdf,
18. Mohammad G. Al-Ibiari, Atef A.M. Ismail, Ahmed A. El-Khateef, **Alhussein A. Basheer**, Ali M.M. El-Iaban, Yara Tarek (2018): Analysis and interpretation of aeromagnetic data for Wadi Zeidun area, Central Eastern Desert, Egypt, Egyptian Journal of Petroleum, Volume 27, Issue 3, 2018, Pages 285-293, ISSN 1110-0621, <https://doi.org/10.1016/j.ejpe.2017.04.002>.
(<https://www.sciencedirect.com/science/article/pii/S1110062117300314>).
19. **Alhussein Adham** and **Sayed Mosaad** (2018): Geophysical and Hydrogeological Evaluation of Pliocene Aquifer in East Esna, Egypt. *Int. J. Appl. Geophys.* 2018 Springer International Publishing AG, part of Springer Nature, <https://doi.org/10.1007/s00024-018-1768-2>.
20. **Basheer, A.A.** (2016): Implementation of Aeromagnetic Data Analysis at Wadi Zeidun Area, Central Eastern Desert, Egypt, International Journal of Geology and earth science, <http://www.ijges.com/view.php?iid=50>, Volume 2, Issue 4, pp, 64-78, ISSN 2395-647X, (December, 2016).
21. **Basheer, A.A.** (2016): Detecting the shallow subsurface chinks below buildings of District No. 27 at 15th May City using ERT, and SSR, Helwan, Egypt., **Journal of Current Urban Studies**.ISSN Print: 2328-4900, ISSN Online: 2328-4919,(2016),[DOI: 10.4236/cus.2016.41002](https://doi.org/10.4236/cus.2016.41002).
22. **A. A. Basheer***, Mostafa Toni, A. M. Abdelmotaal and Khaled Omar, (2015),. Using the HEM Technique and Its Relation to the Seismic Activity to Detect the Main Structural Setting and Rock Units at Abu Dabbab Area, Egypt., *British Journal of Applied Science & Technology*., Article no.BJAST.2015.272 9(4), PP 327-337,ISSN: 2231-0843,(2015),[DOI: 10.9734/BJAST/2015/17989](https://doi.org/10.9734/BJAST/2015/17989).

23. Khamis Mansour, **Alhussein A. Basheer**, Taha Rabeh, Ahmed Khalil, A.A. Essam Eldin, Motoyuki Sato., Geophysical assessment of the hydraulic property of the fracture systems around Lake Nasser-Egypt: In sight of polarimetric borehole radar, NRIAG Journal of Astronomy and Geophysics, Volume 3, Issue 1, Pages 7–17,(June 2014), [doi:10.1016/j.nrjag.2014.01.002](https://doi.org/10.1016/j.nrjag.2014.01.002).
24. **Alhussein A. Basheer**, Abdelnasser M. Abdelmotaal, Hany S. Mesbah, Khamis K. Mansour, Application of Geophysical Methods for Geotechnical Parameters Determination at New Borg El-Arab Industrial City, Egypt. Journal of Current Urban Studies, 2, 20-36,(March 2014), [doi: 10.4236/cus.2014.21003](https://doi.org/10.4236/cus.2014.21003).
25. Ahmed Khalil, Khamis Mansour, Taha Rabeh, **Alhussein Basheer**, Mohamed Abdel Zaher, Kamal Ali (2014): Geophysical Evaluation for Evidence of Recharging the Pleistocene Aquifer at El-Nubariya Area, West Nile Delta, Egypt, International Journal of Geosciences, March 2014, 5, 324-340, [doi:10.4236/ijg.2014.53032](https://doi.org/10.4236/ijg.2014.53032).
26. **Alhussein A. Basheer**, Khamis Q. Mansour, Mohammed A. Abdalla, Geophysical investigation to reveal the groundwater condition at new Borg El-Arab industrial city, Egypt, NRIAG Journal of Astronomy and Geophysics, Volume 3, Issue 2, Pages 117–129, (December 2014), [doi:10.1016/j.nrjag.2014.08.002](https://doi.org/10.1016/j.nrjag.2014.08.002).
27. **A.A. Basheer***, I. Taha, Kh. Q. Mansour, A. Khalil, T. Rabeh., Assessment of the Saline-Water Intrusion through the Fresh Groundwater Aquifer by Using ER and TEM Methods at the Qantara Shark Area, Sinai Peninsula, Egypt., International Journal of Innovative Research & Development.Vol. 3, Issue 4, PP 389-406.,(2014), ISSN Online: 2278-0211. <http://www.ijird.com/index.php/ijird/article/view/48588>.
28. **Alhussein Adham Basheer***, Ahmed El-Kotb Al-Imam, Abdelnasser Mohammed Abdelmotaal, Mostafa Sarhan Toni, Sayed Omar Elkhateeb, , Applianc of Geophysical Methods to Detect the Ancient Remains at “Tell Defenneh” Area, Ismailia, Egypt., Archaeological Discovery (AD), Vol. 2, 71-82,(2014), ISSN Print: 2331-1959, ISSN Online: 2331-1967.[doi: 10.4236/ad.2014.23009](https://doi.org/10.4236/ad.2014.23009).
29. **A.A. Basheer1***, A. I. Taha., A. El-Kotb., F. A. Abdalla, S. O. Elkhateeb., Relevance of AEM and TEM to Detect the Groundwater Aquifer at Faiyum Oasis Area, Faiyum, Egypt, International Journal of Geosciences. Vol. 5, PP 611-

621,(2014), ISSN Print: 2156-8359, ISSN Online: 2156-8367, [doi: 10.4236/ijg.2014.56056](https://doi.org/10.4236/ijg.2014.56056).

30. **Alhussein A. Basheer***, Abdelnasser M. Abdelmotaal, Ahmed ElKotb, Ayman I. Taha, Mohammed A. Abdalla., Tracing of the Avenue of the Ram-Headed Sphinxes Remains Using Geophysical Investigations, Luxor, Egypt., International Journal of Geosciences, Vol. 5, PP 785-798,(2014), ISSN Print: 2156-8359, ISSN Online: 2156-8367. [doi: 10.4236/ijg.2014.58070](https://doi.org/10.4236/ijg.2014.58070).
31. Elsayed I. Selim, **Alhussein A. Basheer***, Gad Elqady, Mahfooz A. Hafez., Shallow Seismic Refraction, Two- Dimensional Electrical Resistivity Imaging, and Ground Penetrating Radar for Imaging the Ancient Monuments at the Western Shore of Old Luxor City, Egypt., **Archaeological Discovery (AD)**, Vol. 2. 31-43,(2014), ISSN Print: 2331-1959, ISSN Online: 2331-1967.[doi: 10.4236/ad.2014.22005](https://doi.org/10.4236/ad.2014.22005).
32. Abdelnasser Mohamed, R. Fat-Helbary, **A. A. Basheer**, Dragi Dojcinovski, USING AMBIENT VIBRATIONS FOR SITE CHARACTERIZATION AT THE NEW ASWAN UNIVERSITY SITE, SOUTHERN EGYPT., 5th Earthquake Engineering Research Centre conference (SE_EEE), Maqdonia, pp. 201-208, (2013).
33. **A.A. Basheer**, , M.A. Atya, M. Shokri, M.M. Abu shady, Application of ERT and SSR to detect the subsurface cave at 15th May City, Helwan, Egypt, NRIAG Journal of Astronomy and Geophysics, Volume 1, Issue 1, Pages 23–32,(June2012), [doi:10.1016/j.nrjag.2012.11.003](https://doi.org/10.1016/j.nrjag.2012.11.003).
34. Khamis Mansour, Taha Rabeh., **Alhussein A. Basheer**, Ahmed Khalil A.A. Essam Eldin Motoyuki Sato., Polarimetric borehole radar application for characterizing subsurface fractures: Implication for fracture systems around Lake Nasser area – Egypt. **Geology Journal - Mongolia.**, Vol. 24 PP 86-98, ISSN Print: 2292-9823,(2012),<http://www.must.edu.mn/mn/>.
35. S. O. Elkhateeb, S. S. Osman, M. A. Atya, S. R. Salem, and **A. A. Basheer**, Implementation of R2D and SSR to detect the Subsurface Condition at New Qeft Industrial City, EGYPT, **journal of Science, Mansoura University**, (2008).
36. S. O. Elkhateeb, S. S. Osman, S. R. Salem, and **A. A. Basheer (2007)**: GROUND MAGNETIC SURVEY IMPLEMENTATION TO DETECT THE MAIN

STRUCTURAL TRENDS OF NEW QEFT INDUSTRIAL CITY, EGYPT, Egyptian society of applied petrophysics, Vol. 7, September (2007).

37. **A. A. Basheer** S. O. Elkhateeb, S. S. Osman, S. R. Salem, APPLICATION OF GEOELECTRIC TECHNIQUE TO REVEAL THE GROUNDWATER CONDITION AT NEW QEFT INDUSTRIAL CITY, EGYPT. **Al-Azhar journal of Sciences, (2007).**
38. S. O. Elkhateeb, M. F. Mousa, S. R. Salem, **A. A. Basheer**., Geophysical studies on New Qena City. Egyptian society of applied petrophysics, *Vol. 1403-413.* (2003).

Supervising scientific theses

1. Finished theses awarded to their students: 9 master's theses and 8 Ph.D. theses
2. Current supervised theses: 5 Master's theses and 3 Ph.D. theses.

Skills:

- Certified trainer (TOT 1,2 Certificates 2018).
- ISO External and internal Auditor (9001, 14001, 45001).
- Internal and External reviewer of National Assurance of Quality and Accreditation for Education (NAQAE) since 2017.
- Computer skills: WORD, EXCELL, POWER POINT, DOSS, ACCESS.
- Good computer knowledge on different applications:
 1. (Techlog) and (Petrel) softwares
 2. TSS and GTS102N Programs for total station software.
 3. Programs for seismology and earthquakes analysis
 4. Program for Mathaw analysis,
 5. Programs for geoelectrical data Interpretation such
 6. Geosoft package and other programs for potential field data interpretation.
 7. Some programs for interpretation of the Electromagnetic data.
 8. Geophysical data interpretation for 1-D, 2-D and 3-D programs for resistivity data.
 9. professional in the most programs for processing and interpretation of GPR and resistivity data
- Wide experience to operate different Geophysical Instruments such as:
 - 1- Seismology and earthquakes data analysis networks

- 2- Geoscan for Archaeological prospecting
- 2-SYSCAL R2 for geoelectric survey and resistivity imaging
- 3-GGA31 for geoelectric survey
- 4-SIROTEM for Trancient Electromagnetic survey
- 5-Sir2000, 20 and Ramac for Ground Penetrating Radar (GPR).
- 6- Field survey magnetometers like proton, cesium.and FM36 scanner.
- 7-Laboratory magnetometers like Spinning and ovens.
- 8-Theodolite and Total Station system.
- 9-GPS (Global Positioning System)

- Progressed Course in **MAGNETO-TELLURIC**.

Activities:

- Certified trainer in (Center of the development of the capabilities of faculty members and their supporting members).
- ISO External Auditor (9001, 14001, 45001).
- Contribution with Tokyo Institute of Technology Mission in geophysical survey at Kharga Oasis for archaeological prospecting (2005-2006).
- Contribution with Hassan Allam and Arab Contractors companies in Archaeological Islamic Cairo City Restoration.
- Contribution with MC international company in Infra structural at abbassia square and El Salam area.
- Contribution with Greek Institute in Alexandria in Geophysics exploration for archaeology at El Shallalat Garden.
- The effect of magnetic soils in UXO discrimination problem.(Financed by the Egyptian Military Service 2005)
- Effect of soil heterogeneity on the performance of GPR in landmine detection (Research project in cooperation between Leibniz Institute for Applied Geophysics (LIAG), Hannover, Germany and Center for North East Asian Studies (CNEAS), Tohoku University, Japan.2007 -2009)
- Contribution with NRIAG with geophysical studies at:
 - Exploration of golden mummy's valley at El Baharyia oasis.
 - Land at both sides of NASER Lake.
 - The stability of mokattam Plateau.
 - Geophysics studies for caves detections at Wadi Hof area.
 - The ground water at Kharga Oasis.
 - The ground water along the northern coast of Egypt.
 - The ground water around El Karnk Temple in Luxor.

Fields of Interest:

- Teaching hydrology, Petroleum, geology, potential geophysics, Petrophysics, Environmental geology, seismology and well logging.
- Training for ISO (9001, 14001, 45001).
- Training for Quality of Education.
- Archaeology protection and exploration.

- Environmental protection.
- Land survey (Total Station and GPS systems)
- Geophysics, using the Following techniques:
 - Seismology and data analyss
 - Geoelectric resistivity
 - Ground Penetrating Radar.
 - Shallow and deep Seismic method
 - Application of geophysics in Geotechnical field