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| Name Arabic) | **أ د/محمد عبدالله حسن الفخراني** |
| Name English) | **Prof. DrMohammad Abd Allah Hassan El Fakharany** |
| Department | **Geology** |
| College | **Faculty of Science** |
| Academic degree | **Emeritus Professor** |
| Office Address | Faculty of Science Benha University |
| Mobile 1 | **002** 01001153093 |
| ~~Home phone~~ | **002 0133225636** |
| Email university) | Elfakharany@fsc.bu.edu.eg |
| Email (alternative) | Elfakharany2015@gmail.com |
| Web site (if any) | <http://www.bu.edu.eg/staff/elfakharany7>  <https://www.researchgate.net/profile/M-A-El-Fakharany>  <https://scholar.google.com/citations?user=-26e07oAAAAJ&hl=en>  <https://orcid.org/0000-0002-7741-4610>  <https://www.scopus.com/authid/detail.uri?authorId=57204392692&origin=recordPage> |
| Recent Photo (passport format) |  |

1. **Personal data**

**Positions**

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| --- | --- | --- | --- | --- |
| **Date**  **From - to** | **Organization** | **Country** | **Position** | **Role** |
| 20/5/2020  Till now | Emeritus Professor | **Egypt** | Emeritus Prof. of hydrogeology | Teaching  Research |
| 9/2019 19/5/2020 | Faculty of Science Benha university | **Egypt** | Prof. of hydrogeology | Teaching  Research |
| 29/4/2013  9-2019 | Faculty of Science Benha university | **Egypt** | Head of the Geology Department | Management |
| 20/1/2013-5/3/2013 | Faculty of Science Benha university | **Egypt** | Acting Dean of the Faculty of science | Management |
| 27-6-2007- 7/4/2013 | Faculty of Science Benha university | **Egypt** | Vice-Dean for Post Graduate Studies & Research | Management |
| 2007 | Benha university  National Center for Faculty members and  Leadership Development | **Egypt** | Trainer | Trainer |
| 29/6/2006 until now | Faculty of Science Benha university | **Egypt** | Prof. of hydrogeology, | Teaching  Research |
| 2000-2006 , | Faculty of Science Zagazig Univ. Benha Branch | **Egypt** | Ass. Prof. of hydrogeology | Teaching  Research |
| 1994-2000 | Faculty of Science Zagazig Univ. Benha Branch | **Egypt** | Lecture of hydrogeology | Teaching  Research |
| 1990-1994 | Faculty of Science Zagazig Univ. Benha Branch | **Egypt** | Ass.Lecture of hydrogeology | Teaching  Research |
| 1987 – 1990 | Faculty of Science Zagazig Univ. Benha Branch | **Egypt** | Demonstrator | Teaching  Research |
| 1985-1987 | Desert Research Center | **Egypt** | Ass. Researcher | Research |

**Education**

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| --- | --- | --- |
| **Institution** | **Degree obtained** | **Year** |
| El Menoufiya University | **Ph. D** | **1994** |
| Cairo University | **M. Sc.** | **1990** |
| El Menoufiya University | **B. Sc** | **1982** |

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| General specialty | **Geology** |
| Specific specialty | Hydrogeology |

**Language skills (Excellent, Very Good, Good, Basic)**

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| **Language** | **Reading** | **Speaking** | **Writing** |
| Arabic | **Excellent** | **Excellent** | **Excellent** |
| English | **Excellent** | **Excellent** | **Excellent** |

**Membership of professional bodies (List)**

1. Geological Society of Egypt

**Areas of research**

* Hydrogeology
* Hydrogeochemistry
* Environmental impact on groundwater
* Flash flood management
* Groundwater pollution
* Physical geology

**PhD/MSc Supervision**

|  |  |  |
| --- | --- | --- |
| **Title** | **Ph D/MSc** | **Year completed / in progress** |
| **1-M. A. El Refae (2001):** “Environmental impact study on groundwater quality of western Nile Delta Area” Banha University. **MSc** | **M Sc** | **2001** |
| 1. **2-M. F. Hamed (2001):** “Hydrogeophysical study on the groundwater occurrences in the middle part of El-Qaa Plain, west Sinai, Egypt” Banha University. | **M Sc** | **2001** |
| **3-H. I. Assal (2002):** The hydrogeological impact of Ismsilia canal on the area between Abu Zaabal and El-Abassa | **M Sc** | **2002** |
| **4-Y. S. El-Sbagh (2003):** The hydrogeological impact of Damietta Branch on the environmental conditions of the eastern part of the Nile Delta (El-Qaluobiya Governorate) | **M Sc** | **2003** |
| **5-M. A. Issa (2005):** “Hydrogeochemical studies on groundwater in Wadi Hodein and its vicinities, southeast Egypt” Banha University. **(M. Sc.)** | **M Sc** | **2005** |
| **6-M. F. Hamed (2006):** “Integrated geophysical study on the groundwater potentialities of area west of Feiran Oasis southwest Sinai, Egypt” Banha University. (**Ph. D.)** | **Ph D** | **2006** |
| **7-N. M. Mansour (2007):** Envirnmental impact on groundwater quality of the Quaternary aquifer at El-Khanka environ, Qaluobiya Governorate, Egypt. | **M Sc** | **2007** |
| **8-A. A. Omar (2008):**The geologic and geomorphologic impacts on groundwater resources, Eastern Portion of central Sinai, Egypt | **M Sc** | **2008** |
| **9- M. A. Gomaa**: -Hydrogeological studies for Toshka area, western Desert,Egypt | **M Sc** | **2011** |
| 10- مني الباز السيد مرسي: اثر التغيرات البيئية غلي المياه الأرضية في محافظة القليوبية- كلية الآداب – جامعة بنها | **M Sc** | **2011** |
| **11- I. Sobhy**: Hydrogeological study for water resources in El-Tor area, south western Sinai, Egypt | **M Sc** | **2012** |
| 12- **N. M. Mansour (2014)**: Environmental management for water resourses in Al-Qalubiya Governorate, Egypt | **Ph D** | **2014** |
| 13- **A. M, abdel Aal (2014)** Organic and inorganic geochemical evaluation of the oil shales at the area between Safaga and Quseir, Red Sea coast, Egypt | **M Sc** | **2014** |
| 14-**S. A. Gafar (2015):** Monitoring and evaluation of quality and treatment of the water used in drinking of Shebin El-Kom city, Menoufia Governorate | **M Sc** | **2015** |
| **15-N. Hagran:** Environmental and hydrogeochemical studies on the groundwater in the northwestern part of the Nile Delta, Egypt | **M Sc** | **2016** |
| **16-M Faris** (2016) Evaluation the petrophysical model of Ras Fanar oil Field, Gulf of Sues, Egypt | **M Sc** | **2016** |
| **17- A. A. Omar (2017):** Hydrogeological Studies of the Nubian Sandstone Aquifer East Nile Valley Between Esna and Idfu Eastern Desert Egypt | **Ph D** | **2017** |
| **18-M.A.Al Sayyad, (2018**): Geological and hydrogeological studies of Moghra Oasis and its vicinities, Qattara Depression, north Western Desert, Egypt**.** | **M Sc** | **2018** |
| **19- A. M. Abdo., (2021):** Geo-environmental Study and Flash Flood Management of East Cairo Area Using Remote Sensing and Geographic Information Systems Technologies | **M Sc** | **2021** |
| **20- I. Moussa:** Hydrogeological and Hydrogeochemical Studies on Groundwater West of Mallawi Region, Minia Governorate, Egypt | **M Sc** | **2024** |

**Major Publications:**

**Theses:**

**M. Sc Thesis Title:**

“Hydrogeology of Qusseir area and its Vicinities”

**Ph. D. Thesis Title**

“Groundwater Problems of the Quaternary aquifer under the southern part of the Nile Delta”

**List of Publications**

1-F. A. Hammad, E. A. Eweida and El Fakharany (1989): Structure and drainage lineation analysis of the Quseir area. Egyptian J. Geol., 33:p. 325-346.

2-M. A. El-Fakharany and K. Dahab(1997): “Hydrogeological studies on wadi Al- Qarn basin, Eastern Desert, Egypt”. Sci. J. Fac. Sci., Menoufiya Univ. Vol. XI pp. 179 -202.

**3-** **M. A. El-Fakharany** ; M.Abdallahand K.A.Dahab (1997):“The impact of groundwater quality on the corrosion of building foundation and pipes of water wells in the Nile Delta Villages, Egypt.” Egyptian Journal of Geology, 41/2B: pp. 765 – 778.

**4-** M. Sh. Diab, K.A.Dahab and **M. A. El-Fakharany** (1997):Impact of the paleohydrogeological conditions on the groundwater quality in the northern part of the Nile Delta, Egypt. Sci. J. Fac. Sci., Menoufiya Univ. pp 779-796.

**5-M.A.El-Fakharany** (1998):“Drainage basins and flash floods management in the area southeastQena, Eastern Desert, Egypt”.Egyptian Journal of Geology, 42/2: pp. 737– 750.

**6-M. A. El- Fakharany** (1998):“The impact of excessive pumping on groundwater at El Marwa area, Cairo-Alexandria desert road, Egypt”. Sci. J. Fac. Sci., Menoufiya Univ. : pp. 1-19.

**7-M. A. El- Fakharany** (1999): **“**Environmental impacts on groundwater at Saint Katherine and Feiran Oasis areas, southern Sinai, Egypt”. Sci. J. Fac. Sci., Menoufiya Univ. : pp. 1-17.

**8-**K. Dahab, M. A. Sadek and **M. A. El-Fakharany** (1999): **“**Replenishment and mineralization processes of Miocene aquifer at Wadi El-Farigh area and its vicinities, using environmental isotopes and hydrochemistry”. Sci. J. Fac. Sci., Menoufiya Univ. pp 111-127.

**9- M. A. El-Fakharany** and M. A. El Refae (2001):Groundwater pollution of the Quaternary aquifer at the southwestern part of the Nile Delta, Egypt. Egyptian Journal of Geology, 45/2: pp. 781–794.

**10- M. A. El-Fakharany** (2003):Impact of excessive pumping on Groundwater Quality at Golf El Solmanya Area, Km 56 Cairo-Alexandria Desert Road, Egypt Sci. J. Fac. Sci., Menufiya Univ., vol. XVII pp. 119-148.

**11- M. A. El-Fakharany,** M. A, Said, and M., Hamed (2003):Geophysical and hydrogeochemical investigations of the Quaternary aquifer at the middle part of El Qaa Plain SW Sinai, Egypt. Egyptian Journal of Geology, Egyptian Journal of Geology, Vol. 47/2: pp. 1004–1022.

12-M. A, Said, M. A. El-Fakharany and M., Hamed (2004): Integrated Geophysical and hydrogeological studies on the Quaternary Aquifer at the middle part of El Qaa Plain, SW Sinai, Egyptian Geophysical Journal, EGS. Journal, vol. 2, No. 1: pp. 135-145.

**13- M. A. El-Fakharany** (2004): Impact of hydrogeological conditions and human activities on groundwater quality of the Quaternary aquifer at Abu Zaabal area, SE Nile Delta, Egypt. The 6th international Conference on Geochemistry; 15-16 September 2004, Alexandria University, Egypt. vol. III: pp. 339-351.

**14-** K. Dahab and **M. A. El Fakharany** (2004): Environmental impacts on groundwater system in Wadi Feiran Basin, southwest Sinai, Egypt. The 6th international Conference on Geochemistry; 15-16 September 2004, Alexandria University, Egypt. (Abstract).

**15-** M. A. A. Gomaa, **M. A. El Fakharany,** & M. A. Eissa (2004):Groundwater geochemistry of the Quaternary and Upper Cretaceous aquifers at Wadi Hodein, southeastern part of Eastern Desert, Egypt. Journal of the faculty of Education No. 29: pp. 471-494.

**16-**M. A. Elkholy, **M.A. El Fakharany,** and S. Youssef (2005): The Development of a geotechnical zonation map of the Nile Delta. The 5th international Conference on Geotechnical Engineering; 11-13 January 2005, Cairo University, Egypt: pp. 393-428.

**17-** M. A. Elkholy, **M.A. El Fakharany**, and S. Youssef (2005): The Development of a geotechnical zonation map of the Nile Valley. The 5th international Conference on Geotechnical Engineering; 11-13 January 2005, Cairo University, Egypt.: pp. 429-478.

**18- M. A. El Fakharany, M. A. A.Gomaa, H. S. Gado & M. A. Eissa (2005):** Relation of groundwater composition to alteration and weathering of silicate minerals in Basement aquifer at Wadi Hodein Basin, southeastern part of Eastern Desert, Egypt” Al-Azhar Bultien of Science. Fac Sci Al Azhar University.

**19-M. A. El-Fakharany and N. M. Mansour, (2009):** Assessment of Water Resources Quality at the Southeastern Part of the Nile Delta, Egypt. International Conference on Water Conservation in Arid Regions (ICWCAR 09) - October 12 – 14, 2009. King Abdulaziz Univ,

**20-** **Gedamy, Y. R., M. M. Said, M. A. El Fakharany and M.A. Mahmoud (2010):** Hydrogeochemical modeling and groundwater recharge of the Nubian sandstone aquifer at Tushka area, south western Desert, Egypt. Egyptian Journal of Appl. Sci., 25(8A): pp. 527–542.

**21-** **Gedamy, Y. R., M. M. Said, M. A. El Fakharany and M.A. Mahmoud (2011):** Geochemical evidences for possible Water Seepage From Lake Nasser to the Groundwater in the area between Abu Simble and Tushka. EJPAS: Egyption Journal of pure and Applied Science, V 49, 2011 pp: 7 to 18.

**22-** **M. A. El-Fakharany\* M. M. Yehia, M. Monem, N. M. Mansour(2013):** Using Modflow and MT3D Groundwater Flow and Transport Models as a Management Tool for the Quaternary aquifer, East Nile Delta, Egypt. International journal of Science Commerce and Humanities Volume No 1 No 5 pp. 219-233. July 2013.

**23- M. A. El-Fakharany, M. F. Ghanem, M. G. Temraz, m. M. Afife, A. B. Maky and A. M, abdel Aal (2013):** Organic evaluation of the black shales of the Duwi Formation in some phosphate Minrs at Safaga-Quseir area, Red Sea coast, Egypt. Egypt. J. of Appl. Sci, V 28, No. 9 pp: 288 to 505.

**24-M. Hesham; A. Sara; A.Tawfiq; M. A. El Fakharamy and M Hazaa (2015)**: Bioagents Treatment of Raw polluted Surface Water. J Boil. Chem. Environ. Sci.V10 (2) pp: 165-181.

**25- Hammad,F.A., El Fakharany, M.A., Shabana, A.R. and Saleh A.A (2015):** Hydrogeological studies on Esna-Idfu area, East Nile valley, Eastern Desert, Egypt. The first international conference of the Faculty of Science, Benha Univ. Role of Applied Sciences in Development and Society Services 5-6/9/ 2015

**26- Awad S.R., El Fakharany M.A and Hagran N.M.(2015):** Environmental Impact on Water Resources at the Northwestern Part of the Nile Delta, Egypt. *J Am Sci* V(11), No(11) pp:1-11

**27-El FAKHARANY. M AFIFE and FARES. M(2016):** Reservoir quality of Nullipore formation, Ras Fanar oil field concession, Gulf of Suez, Egypt. International Journal of Scientific Engineering and Applied Science (IJSEAS) – Volume-2, Issue-5, pp. 368-382. May 2016

**28-Mohamed F. Ghanem1, M.A El-Fakharany, Mostafa Gouda Temraz1, Mohamed Mustafa Afife and Amr M. Shehata1** **)2016:(** Mineralogical and Elemental Compositions of Oil Shale in Duwi Formation Phosphate Mines, Safaga-Quseir Egyp. IJISET - International Journal of Innovative Science, Engineering & Technology, Vol. 3 Issue 2, pp. 479-492. February 2016.

**29- M. A. El-Fakharany, N. M. Mansour, M. M. Yehia, M. Monem, (2017):** "Evaluation of groundwater quality of the Quaternary aquifer through multivariate statistical techniques at the southeastern part of the Nile Delta, Egypt", Sustain. Water Resour. Manag. J Vol. 3 No. 1 pp:71-81 "The final publication is available at link.springer.com”.

**30-A. F. Yousf, M. A. El Fakharany, U.A. Abu Risha M.M. Afifi, M.A.Al Sayyad, (2018**): Contribution to the geology of Moghra-Qattara area, North Western Desert, Egypt. J of Bas. Sci. and Environ. V. 5 pp: 1-19.

**31- Mohamed F. Ghanema, M.A. El-Fakharany, Mostafa G. Temraz, Mohamed M. Afife, Amr M. Shehata (2018):** Upper Cretaceous Duwi Formation shale’s oil potentiality Safaga-Quseir, Red Sea, Egypt. Egyp. J. Petrol. [V. 27, Issue 4](https://www.sciencedirect.com/science/journal/11100621/27/4), pp. 1313-1323.

32- **El-Fakharany, M. A., & Mansour, N. M. (2021).** Morphometric analysis and flash flood hazards assessment for Wadi Al Aawag drainage Basins, southwest Sinai, Egypt. Environmental Earth Sciences, 80 (4), 1-17. DOI: https://doi.org/10.1007/s12665-021-09457-1

**33-El-Fakharany MA, Hegazy MN, Mansour NM, Abdo AM (2021)**: Flash flood hazard assessment and prioritization of sub-watersheds in Heliopolis basin, East Cairo, Egypt. Arabian Journal of Geosciences (2021) 14:1693. <https://doi.org/10.1007/s12517-021-07991-7>

**34-** **El-Fakharany, M.A.; I.E. Mussa and Nehad M. Mansour )2022): Assessment of groundwater quality in West** Mallawi District, South Minya Governorate, Egypt, Using Water Quality Index (WQI) and irrigation parameters. Egypt. J. of Appl. Sci., 37 (9) 2022. <https://doi.org/10.21608/ejas.2022.283065>.

35-**Hegazy M. N., El-Fakharany, Abdo M. A., and Mansour NM, (2023):** Estimation of expected peak discharge and flood volume of the Heliopolis basin, East Cairo, Egypt, using RS and WMS program. Egypt. J. Remote Sens. Space Sci. DOI: [10.1016/j.ejrs.2023.07.010](http://dx.doi.org/10.1016/j.ejrs.2023.07.010)

* 1. **Recent Workshops, Symposiums, and Conferences**

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| **Name of Workshops, Symposiums, and Conferences** | **Year** |
| The 6th international Conference on Geochemistry; 15-16 September 2004, Alexandria University, Egypt. vol. III: pp. 339-351. | 2004 |
| The 5th international Conference on Geotechnical Engineering; 11-13 January 2005, Cairo University, Egypt.: pp. 429-478. | 2005. |
| International Conference on Water Conservation in Arid Regions (ICWCAR 09) - October 12 – 14, 2009. King Abdulaziz Univ, Saudi Arabia. | 2009 |
| The first international conference of the Faculty of Science, Benha Univ. Role of Applied Sciences in Development and Society Services; | 09/2015 |

**Research Contributions:**

***Participated in the following Scientific Projects:***

1- Member of the research team of projects ‘’protection of the strategic areas of the Red Sea and Sohag Governorates from flashflood Hazards and how to conserve their waters’’ Sponsored and executed by the Geology Department, Faculty of Science, El Menoufiya University in collaboration with the Academy of Scientific Research and Technology (1996 - 1999)

2- Principal investigator in the project “Development of a geotechnical encyclopedia for Egypt’’ Sponsored and executed by theSoil Mechanics and Foundation Research Laboratory, Faculty of Engineering, Cairo Universityin collaboration with theGeneral Authority for Educational Buildings (1997 -2003).