

Migdad El-Kheir Shuaib Mohammed (Ph.D.)



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PERSONAL BACKGROUND

Nationality: Sudanese

Religion: Muslim

Date of Birth: 1986

Marital Status: Married

Languages: Arabic and English

EMPLOYMENT HISTORY

09/2025 – Present

Assistant Professor | University of Tripoli, Tripoli, Libya

- Teaching applied geophysics courses for undergraduate and graduate level ([Well Logging \(GP 321\)](#), [Exploration Geophysics II \(GP 511\)](#), [Advanced Seismic Data Processing \(GP 614\)](#))
- Training students on geophysical methods in the field
- Supervising scientific research

09/2013 – Present

University of Khartoum, Khartoum, Sudan

- Teaching applied geophysics courses for undergraduate and graduate level ([Introduction to Geophysics \(Geo 307\)](#), [Seismic Refraction \(Geo 324\)](#), [Electrical Methods \(Geo 406\)](#), [Seismic Reflection and Processing \(Geo 513\)](#), [Seismic Technique \(PET 606\)](#))
- Training students on geophysical methods in the field
- Supervising scientific research

10/2013 – Present

Groundwater Exploration Expert | Hydrotech Consult, Khartoum, Sudan

- Exploration of groundwater resources using geophysical methods, remote sensing, and geological survey
- Analysis of field data and making recommendations
- Preparation of technical and scientific reports

02/2011 – 05/2013

Research Assistant | King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia

- Teaching various laboratory courses
- Assisting in field training work

04/2010 – 01/2011

Teaching Assistant | University of Khartoum, Khartoum, Sudan

- Teaching various laboratory courses
- Assisting in field training work

EDUCATION

06/2019 – 12/2022

University of Science and Technology Houari Boumediene (USTHB) | Algiers, Algeria

PhD: Geophysics

Thesis Title: [Integration of Seismic Inversion, Multi Attributes Analysis, and Neural Network for Thin Beds Characterization in Muglad Rift Basin, Sudan]

02/2011 – 05/2013

King Fahd University of Petroleum and Minerals (KFUPM) | Dhahran, Saudi Arabia

MSc: Geophysics

Thesis Title: [Seismic Attributes and Petrophysical Modelling of the Aradeiba-D Member, Muglad Rift Basin, Sudan]

12/2003 – 11/2008

University of Khartoum | Khartoum, Sudan

BSc: Geology / Geophysics

ADDITIONAL SKILLS

- **Software:** Windows and Linux operating systems; RESIX: for resistivity data interpretation, Grapher for graphics, Surfer; Hampson-Russell for seismic multi- attributes, AVO Analysis and Seismic Inversion, Petrel for modelling; Seismic Unix: for seismic processing, general use of office suites.
- **Data Collection and Analysis**
- **Teaching, Tutoring and Presenting**

PUBLICATIONS

- Abdullatif, O., & Shuaib, M. (2014). **Permeability Prediction Using Probabilistic Neural Network (PNN): Application to the Paleozoic Shallow Marine Sandstone of Quwarah Member, Qasim Formation, Saudi Arabia.** *International Petroleum Technology Conference (IPTC)*. Doha, Qatar.]
- Shuaib, M. E. K., & Berguig, M. C. (2022). **Thin-bed reservoir characterisation by integration of seismic inversion, multi attributes analysis and neural network: a case study in the Sufyan oil field of the Muglad rift basin, Sudan.** *Bulletin of Geophysics and Oceanography Vol, 63(3), 455-480.*

AWARDS AND MEMBERSHIPS

- Faculty Prize: for the best academic performance (2004,2005,2006)
- Schlumberger prize: for academic achievement (2006)
- Member of the Society of Exploration Geophysicists (SEG)

TECHNICAL REPORTS

2009

1. **Shuaib M.K.** (in Dept. of Geology, U. of K.). An Investigation of Groundwater Potential in Hashim Hago Proposed Farm Northwest Umdurman - Khartoum State, 2009.
2. **Shuaib M.K.** (in Hydromaster consult). A Hydro-Geophysical Study for the Evaluation of Groundwater in the Proposed Tamara agricultural scheme, Northwest el Matama, Nile State – Sudan, 2009.
3. **Farwa A.G., El Tayeb I, and Shuaib M.K.** Electrical Resistivity Measurements for the search of Groundwater in Kassala region, Kassala State, submitted to Drinking Water Corporation, Sudan, 2009

2010

4. **Shuaib M.K.** (in Hydromaster consult). Assessment of Groundwater Potential in Mubarak (Tofeil) Agricultural Scheme, Northwest Omdurman, Khartoum State – Sudan, 2010.

2013

5. **Farwa A.G.and Shuaib M.K.** A Geophysical Study of the Area Northeast of Seydon Village – River Atbara, Nile State, submitted to Meyas – Nub Multi Activities CO.LTD.,Sudan, 2013.
6. **Farwa A.G.and Shuaib M.K.** A Geoelectrical Survey at Elatyod Village, Talkuk Municipality – Kassala State, Sudan, Submitted to Sudanese Red Cross – Kassala State, 2013.

2014

7. **Shuaib M.K. and Ali A.M.** Soil Resistivity Tests at Misaktab, Assut, and Port Sudan Stations, submitted to Building and Road Institute, Sudan, 2014.
8. **Bireir F. A. And Shuaib M.K.** Geophysical Survey for the Evaluation of Groundwater Setting in El Taniem residential project area, Soba District- Khartoum State –Sudan, Submitted to Forus Engineering Company, 2014.
9. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measurements for the Search of Groundwater at Sites around Kassala state – Sudan, Submitted to Drinking Water Corporation, Sudan,2014.
10. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measurements for the Search of Groundwater in Hamashkoraib region - Kassala state – Sudan, Submitted to Drinking Water Corporation, Sudan,2014.
11. **Bireir F. A. and Shuaib M.K.** Hydrogeophysical Study in LIWA Project area, South West Atbara - River Nile State, Sudan, Submitted to LIWA Company , 2014

2015

12. **Farwa A.G.and Shuaib M.K.** Geoelectrical Surveys for groundwater Search at Several Sites in Kassala State, Sudan, Submitted to Sudanese Red Crescent – Kassala State, 2015.
13. **Shuaib M.K.**(in Geomaster for Geological and Consultancy Services) Integrated Hydrogeophysical Investigation in the Proposed Residential Blocks Around Green Valley, Bahri Locality, Khartoum State, Sudan, submitted to Housing Development Fund, 2015.
14. **Shuaib M.K.** (in Dept. of Geology, U. of K.).Hydrogeophysical Study in MOB project Kilo 43 Shiryan Elshimal street, NW Omdurman area- Khartoum State –Sudan, Submitted to MOB Project for Agriculture and Livestock, 2015.

2016

15. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measurements for the Search of Groundwater in Kry Derir, Amara, and Baryay Villages – Kassala Region – Sudan , Submitted to World Bank – Kassala, 2016.
16. **Shuaib M.K. and Farwa A.G.** Electrical Resistivity Measurements for the Search of Groundwater at Several Sites In Kassala Region – Sudan, Submitted to Labina Organization, 2016.
17. **Farwa A.G., M. A/Rahim and Shuaib M.K.** A Geophysical Survey for Evaluation of Water Resources in Lagawa Town – West Kordofan State, Sudan , Submitted to the Head of the West Kordofan State, 2016
18. **Farwa A.G.and Shuaib M.K.** A Geophysical Survey at Haervy Company Proposed Farm Site, Shendi area, Nile State, Sudan, Submitted to Harvey Company For Export of Animal Products, 2016
19. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measuremens for the Search of Groundwater at sites in Kassala state – Sudan, Submitted to Drinking Water Corporation, Sudan,2016.
20. **Farwa A.G.and Shuaib M.K.** Geoelectrical Survey at Raiba Site – Kassala State, Sudan, Submitted to Drinking Water Corporation, Sudan,2016.
21. **Shuaib M.K. and Farwa A.G.** A Geophysical Investigation for Groundwater in Malha Locality – Norh Darfur – Sudan, Submitted to General Directorate for Dams- Sudan, 2016
22. **Farwa A.G., Shuaib M.K. and Ali H. O.** A Geophysical Survey for the Search of Groundwater in Wadi Omek, Shulai Site, Ariab Area – Red Sea State, Sudan, Submitted to Ariab Mining Company (AMC) – SUDAN, 2016.

2017

23. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measuremens for the Search of Groundwater at Medical Supplies site - Kassala state – Sudan, Submitted to Drinking Water Corporation, Sudan,2017.
24. **Farwa A.G.and Shuaib M.K.** Electrical Resistivity Measuremens for the Search of Groundwater at Elatyud and Maman Villages – Talkuk area - Kassala state – Sudan, Submitted to General Corporation of Forestry – Kassala State, Sudan,2017.

25. **Farwa A.G. and Shuaib M.K.** A Geophysical Investigation for the Evaluation of Groundwater Potential at Argo – Sileim Site , Northern State, Sudan Submitted to Teitel Company Agricultural Project, 2017
26. **Farwa A.G. and Shuaib M.K.** A Geophysical Investigation for the Evaluation of Groundwater Potential at Durou'u Project area – West Umdurman – Khartoum State, Sudan, Submitted to Izdihar Co.Ltd., 2017
27. **Shuaib M.K. and Farwa A.G.** A Geoelectrical Survey for the the search of Groundwater at several site in Kassala Region- Kassala State, Sudan, Submitted to National Army at Khasm el Girba – Kassala State, 2017.
28. **Yousif M. A. R., Shuaib M.K. and Farwa A.G.** A Geophysical Investigation for the Evaluation of Groundwater Potential at Hababay Co. Project site – North West Umdurman – Nile State, Sudan, Submitted to Hababay International Co., 2017
29. **Yousif M. A. R., Shuaib M.K. and Farwa A.G.** A Geophysical Survey for the Search of Groundwater al Liri Locality – South Kordofan State, Sudan, Submitted to Care International – Switzerland, Sudan, 2017
30. **Yousif M. A. R., Shuaib M.K. and Farwa A.G.** Hydrogeophysical Survey for the Search of Groundwater at the WFP Logistics hub Area , Elobeib North Kordofan State – Sudan, submitted to World Food Progrmme (WFP) Sudan Office, 2017.
31. **Farwa A.G. and Shuaib M.K.** Geoelectrical Survey within the Premises of Central Emergency Troops – Kassala State, Sudan, Submitted to Drinking Water Corporation, Sudan, 2017.
32. **Farwa A.G. and Shuaib M.K.** Electrical Resistivity Measuremens for the Search of Groundwater at Raheib site (Delta Toker – Red Sea) and at Lakleib site (Haya region) – Eastern Sudan, Submitted to El Burkan Co. For Drilling, Sudan, 2017
33. **Farwa A.G. and Shuaib M.K.** A Geophysical Investigation for the Evaluation of Groundwater Potential at Himlan Project area, West Umdurman – North Kordofan State, Submitted to Himlan International for Animal Production Co. Ltd., Sudan, 2017
34. **Abdalla S. B and Shuaib M.K.** Hydro - Geophysical Survey for the Evaluation of Groundwater in Land Mark Agricultural Scheme –El Debba Municipality - Northern State –Sudan, A technical Report Submitted to Land Mark for Multi Activities Co. Khartoum, 2017
35. **Abdalla S. B and Shuaib M.K.** Hydro-geophysical Study in Al Madiain Project area; south west Al Dabbah Town- Northern State, Sudan, Submitted o Al Madiain Co., 2017
36. **Abdalla S. B and Shuaib M.K.** A Geophysical Survey for the Evaluation of Groundwater in Itam El-Kheir Agricultural and Animal Production Scheme – Northern State –Sudan, Submitted to Itam Investment Co.Ltd, 2017.
37. **Abdalla S. B and Shuaib M.K.** Hydro-geophysical Study in Zadna Project Area south west Dongola Town- Northern State, Sudan, Submitted to Zadna Company, 2017.

2018

38. **Shuaib M.K. and Farwa A.G.** (2018): Geoelectrical survey at Ali Yahia Scheme – Kassala State.
39. **Shuaib M.K. and Farwa A.G.** (2018). Geophysical Investigation for Groundwater at Ahamda village, West Umdurman - Khartoum State . Maarif Organization Groundwater Services & Sanitation.
40. **Shuaib M.K. and Farwa A.G.** (2018). Geoelectrical survey at Ali Yahia Scheme – Kassala State – Sudan.
41. **Yousif M. A. R., Shuaib M.K., and Farwa A.G.** (2018): Vertical Sounding measurements for Groundwater Investigation at Quarter No.2. Mayou – south Khartoum town, Khartoum State Water Corporation, Khartoum State.
42. **Shuaib M.K. and Farwa A.G.** (2018). Geoelectric surveys for the investigation of groundwater at several villages in Talkuk area- Kassala region- Sudan. Report for Practical Action Organization, Kassala State- Sudan.
43. **Shuaib M.K. and Farwa A.G.** (2018). Geophysical investigation for groundwater potential at several sites in East Nile - Rocinantes Organization – Khartoum – Sudan.
44. **Shuaib M.K. and Farwa A.G.** (2018). An investigation of groundwater potential in Northwest Umdurman – Khartoum State. A report for Taha Suliman Taha Project – Sudan .
45. **Shuaib M.K. and Farwa A.G.** (2018): Geophysical investigation for groundwater potential in Rakha Cooperative Project – Northwest Umdurman. Report for Um Katti Community, Khartoum State.

2019

46. **Shuaib M.K. and Farwa A.G.** (2019). Geophysical investigation for groundwater potential at Dhihab el Din Ali Project – Northwest Umdurman, Khartoum State.

47. **Shuaib M.K. and Farwa A.G.** (2019). Geoelectrical Survey at Isam Sanhuni Project - Kassala State – Sudan.
48. **Shuaib M.K. and Farwa A.G.** (2019). A Geoelectrical Survey for the Search of Groundwater at Several Sites in Gedaref Region, Gedaref State, Sudan, Submitted to Islamic Relief Worldwide Organization, Gedaref Office.
49. **Shuaib M.K. and Farwa A.G.** (2019). A Geoelectrical Survey for Groundwater at several Villages in Kassala Region. El Badri Co. for Submersible Pumps. Kassala State, Sudan.
50. **Shuaib M.K., Yousif M. A. R. and Farwa A.G. (2019):** Geophysical Investigation for Groundwater Potential at Kilo7 Site - Northwest Umdurman – Khartoum State, Sudan. WASS for Agricultural Production & Post Harvesting Techniques.
51. **Shuaib M.K. and Farwa A.G.** (2019): Geophysical investigation for groundwater potential at Hussein Farm- Northeast Geteina town- White Nile State.

2020

52. **Shuaib M.K. and Farwa A.G.** (2020). A Geophysical Survey at Syd. Dafalla El Amin Farm Project, East Nile – Khartoum State-Sudan.

2021

53. **Shuaib M.K. and Farwa A.G.** (2021). Geophysical Investigation for the Assessment of Groundwater at Al-Ananin Villages Al-Ereiff Region - West Metamma Town – Nile State
54. **Shuaib M.K.** (2021). A Geophysical Investigation for Groundwater Potential at Several Farm Sites in Ad'dabba Locality, Northern state, Sudan, Submitted to Geowater for Drilling & Investment Company.
55. **Shuaib M.K. and Abdella K.O.** (2021). Electrical Resistivity Measurements for the Search of Groundwater at Shendi Town – Block 18, River Nile State, Sudan, Submitted to Ola Multi Projects Company Ltd.
56. **Eltai M. A. and Shuaib M.K.** (2021). A Hydrogeophysical Study for the Assessment of Groundwater Potentiality at Moawia Elberier Project for Agriculture – Soba, Khartoum State, Sudan, Submitted to Moawia Elberier Company.

2022

57. **Shuaib M.K. and Farwa A.G.** (2022). A Geoelectrical Survey for the Search of Groundwater at Babikry Village (Bassunda Municipality) Gedaref State – Sudan
58. **Shuaib M.K. and Farwa A.G.** (2022). A Geoelectrical Survey for the Assessment of Groundwater Potential and Quality at El Goshabi Village – El Debba District- Northern State – Sudan.
59. **Shuaib M.K. and Farwa A.G.** (2022- 2023). Geophysical Exploration for Drilling Groundwater Wells at Selected Sites in Seven States in Sudan (Red Sea – Kassala- Gedaref - North Kordofan- West Kordofan- South Kordofan- Blue Nile), Submitted to El Gihaz Contracting Company – Saudi Arabia.

2025

60. **Elmamoun M. E., Shuaib M.K. and Farwa A.G.** (2025). A Geoelectrical Survey at HMB gold site, Gabgaba Region- River Nile State, Sudan