

Abubakr Abdelrahman

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EDUCATION

COMSATS University | *MSc. Remote Sensing and GIS*

Islamabad, Pakistan | **02.2015 -09.2017**

- Cumulative **GPA: 3.21/4.00**
- **EARS – COMSATS:** Research Associate (Project Based)

Islamabad, Pakistan | **09.2015 – 05.2017**

University of Khartoum | *Bachelor of Geology*

Khartoum, Sudan | **2004 - 2009**

Omdurman Islamic University | *Bachelor of Computer Science*

Khartoum, Sudan | **2002 - 2008**

Additional Courses

ESRI Online Courses:

- Going Places with Spatial Analysis | MOOC| Oct 2015.
- The Location Advantage | MOOC| Apr 2016.
- GIS for Humanitarian Mine Action: Data Types and Data Exploration | Web Course| May 2016.
- GIS for Humanitarian Mine Action: Symbols and Symbol Styles |Web Course| May 2016.
- GIS for Humanitarian Mine Action: Principles of Map Design |Web Course| May 2016.
- GIS for Humanitarian Mine Action: Coordinate Systems and Map Projections | Web Course| May 2016.
- GIS for Humanitarian Mine Action: Geo-referencing and Digitizing | Web Course| May2016.
- GIS for Humanitarian Mine Action: Using Vector Data in ArcMap | Web Course| May 2016.
- GIS for Humanitarian Mine Action: Using Raster Data in ArcMap | Web Course| May 2016.
- Do-It-Yourself Geo Apps | MOOC| Aug 2016.
- Python for Everyone | Web Course| Jun 2017.
- Putting Your GIS Skills to Work | Web Course| Sep 2017.
- Basics of JavaScript Web Apps | Web Course| Sep 2017.
- Earth Imagery at Work | MOOC| Oct 2017.
- Getting Started with ArcGIS Pro |Web Course| Oct 2018
- Spatial Data Science: The New Frontier in Analytics |MOOC| Apr 2020.

Understanding Phenology with Remote Sensing |NASA's Applied Remote Sensing Training Program| Jul 2020.

Tools for Analyzing NASA Air Quality Model Output | NASA's Applied Remote Sensing Training Program| Mar 2022.

SKILLS

Database & Programing Languages

SQL, R, Python, JavaScript and UML.

Software Tools

ArcGIS, ENVI, ERDAS Imagine, Microsoft Office, Microsoft Excel, Google Sheets, Enterprise Architect.

Leadership Qualities

Effective communication
Ability to teach & mentor
Decision-maker & problem-solver

EXPERIENCE

Blue Nile Geophysical Company | QC Officer

Heglieg, Sudan | **11.2018 – 06.2019**

- Collaborated with 2 survey engineers and a project manager to control the quality of seismic network for petroleum exploration.
- Developed impactful maps in ArcGIS showing all the facilities in the project area to identify safe distances, which are the minimum distances between seismic source point and existing facilities like buildings, pipelines or environmental concerns.
- Contributed to ensure minimum impact of seismic waves in existing facilities.

Ministry of Oil and Gas | GIS Internship

Khartoum, Sudan | **06.2017 – 10.2017**

- Collaborated with GIS Department team to support visual modeling of ArcGIS geodatabases.
- Modeled ArcGIS schemas.
- Contributed to improve development and maintenance of geodatabases.

MOROBE DEVELOPMENT FOUNDATION (MDF) | United Nation Volunteer

05.2022 – 10.2022

- Online UNV Project titled: "Carrying out Literature Feasibility Study on a Water Supply Drill location to identify potential water supply drilling site".

PROJECTS

Data Visualization Projects

Tell a Story with Imagery in ArcGIS Online.
Created maps showing facilities in Heglieg area, Sudan to manage the seismic survey conducted in the area.
Created a heat map to show where Covid-19 cases have spiked in Sudan.

Exploratory Data Analysis

Projects

Change Detection Over Time at Chernobyl with ArcGIS Online.
Forest Fires in Australia with ArcGIS Pro.
Responding to Tornado Damage with ArcGIS Online.
Looking at the relationship of geography and business in performing market planning to narrow down areas within a region for a commercial bank expansion.
Case Study Site Selection: Choosing the Right Location and evaluating sites for a new location for a business.
Case Study: Are there populations exposed to poor ambient air quality?

Projects at COMSATS University

Groundwater Modeling using Geospatial Techniques in Khartoum Area, Sudan (Graduation Project).
Use of GIS for Hydrological Analysis: Case study of flood hazard zoning of district of Charsadda, Pakistan.
Interpolation Techniques and Applications.
DISCRET-RETURN LIDAR Digital Elevation Model (DEM) via SURFACE INTERPOLATION.
Route Mapping for Ambulance Service in Islamabad
Spatial Analysis Assignments which include 3D Analyst, Network Analysis and Ecological Modeling.
Statistical Analysis and Applications.

SPECIAL INTERESTS

- Interpretation and Analysis of Satellite Imagery.
- Applications of Remote Sensing in mineral exploration.
- Focus learning Python for ArcGIS (ArcPy Module).
- Web GIS.
- Spatial Analysis.