

CURRICULUM VITAE

GENERAL INFORMATION

Name: Aboubaker Ahmed Osman Ali
Date of birth: November 9, 1974
Religion: Islam
Nationality: Sudanese
Language: Arabic language (L₁) & English (L₂)
Marital status: Married
Mobile: 00249912226816 - 00249111406746
E-mail: atbrawee@gmail.com

ACADEMIC QUALIFICATIONS

- 2019 **PhD in Civil Engineering**, Faculty of Engineer, University of Khartoum, Sudan. PhD Thesis Title '*Development of a Lumped Rainfall-Runoff Model in a Partially Gauged Catchment in a Semi-Arid Region*'.
- 2007 **MSc in Civil Engineering (Water Resources)**, Faculty of Engineer, University of Khartoum, Sudan. Thesis Research Title '*Use of Space Technology & GIS in Wadi Systems Case of Gash River Basin*'.
- 1998 **BSc in Civil Engineering**, Faculty of Engineering, Omdurman Islamic University, Sudan.

ACADEMIC EXPERIENCE

a) Teaching Career

- 2019 To Date: **Assistant Professor** Department of Civil Engineering, Faculty of Engineer & Technology, Nile Valley University.
- 2014-2019: **Lecture**, Department of Civil Engineering, Faculty of Engineer & Technology, Nile Valley University.
- 2007-2014: **Lecture**, Department of Civil Engineering, Faculty of Engineer Sennar University.
- 2005-2007: **Teaching Assistance**, Department of Civil Engineering, Faculty of Engineer Sennar University.

b) Part-Time Lecturer

- Department of Civil Engineering, University of Khartoum.
- Department of Civil Engineering, Blue Nile University.
- Department of Civil Engineering, Gazera University.
- Department of Civil Engineering, Elsheikh Elbadri University.

c) Teaching Experiences

Since 2007 I have teach the following courses at undergraduate level:

- *Hydrology.*
- *Hydraulics.*
- *Hydraulic Structures.*
- *Advance Hydrology.*
- *Hydrological Models.*
- *Hydraulical Models.*
- *Fluid Mechanics.*
- *Groundwater.*
- *Irrigation.*
- *Environments.*

Since 2019 I have teach the following courses at Master's Level:

- *Watershed Management.*
- *Hydrologic Modelling.*

AFFILIATION TO PROFESSIONAL ASSOCIATION

- Member, Sudanese Engineering Society.
- Registered Specialist Engineer, Sudanese engineering council.
- Member, Management Council of Nile Valley State – Water Corporation.

TRAINING

- Internship under NCORE Project in Eastern Nile Flood Monitoring and Early Warning (NBI – ENTRO – Ethiopia).
- Climatic Change, Training Center University of Khartoum.
- Use of USGS Products and Tools in Support of Flood Disaster Preparedness and Early Warning – USGS, USAID and UNESCO Chair in Water Resource Sudan.
- Water Resources Planning and Management, UNESCO chair in Water Resource, Sudan.
- Project Planning & Management – Sudan Academy for Administrative Science.
- Project, Implementation, Monitoring and Evaluation – Sudan Academy for Administrative Science.

ACADIMIC CIRCUFERENCES:

- 2019 Workshop on Seepage phenomenon in Atbara City, Atbara, Sudan.
- 2017 Workshop on Portsudan drinking water problems, Portsudan, Sudan.
- 2017 Conference Integrated and Sustainable Management n Non-Nile Water in Sudan, Corinthia Hotel, Khartoum, Sudan.
- 2016 First Conference in Civil Engineering, Marwai, Sudan.
- 2016 Workshop (Assessment of Needs and Priorities in Research and Capacity Building in Water Harvesting), Khartoum, Sudan.
- 2016 The Sudanese-German Collaboration Forum on Higher Education & Scientific Research, Khartoum, Sudan.
- 2016 Expert Meeting on (Water Harvesting and Ground Water Recharge), Khartoum, Sudan.
- 2016 Workshop on Water Balance and Accounting for the Eastern Nile Using Advanced Methodologies), Khartoum, Sudan.
- 2015 China-Sudan Symposium on Advance Material & Technique in Civil Engineering and Training Program, Yangzhou, China.

TEACHING & CAPACITY BUILDING EXPERIENCE

- 2019 Course on River Analysis System (HEC-RAS) software working within GIS environments for Ministry of Infer Structure and Transportation, Khartoum State.
- 2019 Course on Geographical Information System (GIS) for Ministry of Agriculture, River Nile State Water Corporation.
- 2019 MSc. Course on watershed management (Modelling) for UNISCO Chair, Omdurman Islamic University.
- 2018 Course on Global position System (GPS) for Teaching Staff, Nile Valley University.
- 2018 Course on GIS for Ministry of Physical Planning and Public Utilities, River Nile State Water Corporation.
- 2017 Course on GIS for Teaching Staff, Nile Valley University.
- 2017 Course on GPS for Ministry of Agriculture, River Nile State.

SCIENTIFIC PUBLICATIONS:

- Aboubaker. A.O, Barsi. B.I, Bashar. K.E, "Validation of satellite rainfall estimate based on rainfall observations for Sudan", Nile Water Science & Engineering Journal, Vol. 7, Issue 1, 2014
- Aboubaker. A.O, Barsi, Babiker. I, Bashar. K.E, "Development of a Model for Runoff Simulation in Data Scarce Semi- Arid Regions", UofK EJ Vol.8 Issue 2 pp.23-31 (August-2018).

PROFESSIONAL EXPERIENCE

- 2017-2020:** Many Research Studies Funded by the Ministry of Higher Education and Scientific Research, Sudan.
- Assessment of Natural Resources in River Nile State using Remote sensing and GIS techniques, Sudan.
 - Impacts of Flash Floods on Physical Planning, Wadi Elgiea in Omdurman as a case study, Sudan.
 - Project Study to Solve the Problem of Drinking Water Supply for Portsudan City, Sudan.
 - Design of Rainfall Drains System for Kasala City, Sudan
- 2018:** Hydrological Engineer, Permanent Irrigation system for WadHamid & Salawa Irrigation project, Nile Valley Government.
- 2017:** Hydrological Engineer, Darfur Catchment Mapping and Water Resources Assessment Study, University of Khartoum, Water Research Center.
- 2016 – 2018:** Establishing and management of Water Studies and Research Center, Nile Valley University.
- 2014:** Hydrological Engineer Specialist, Flood monitoring and early warning at Blue Nile River, Eastern Nile Technical Regional Office (ENTRO), Ethiopia.
- 2010 - 2012:** Establishing and management of Sinnar University Dar Consultancy.
- 2005 - 2019:** Lecturer, Sennar and Nile Valley University, Department of Civil, Water Resource Engineering.
- 1999 - 2002:** Civil Engineer, Project Administration, Sudan Railways Corporation.

MODELING & GIS SOFTWARE

Advance skills in:

- ESRI Products (ArcView GIS 3.2a, ArcMap).
- HEC Products (HEC-GeoHMS, HEC-GeoRAS, HEC-HMS, HEC-RAS, HEC-GridUtil 2.0 and HEC-DSSVue 2.0.1).
- USGS EROS Hydrologic modeling system (GeoSFM).
- Global Mapper.
- WaterGEMS
- WMS 7.1

OTHER ASSISTANT SOFTWARE

Advance skills in: Windows office, Internet, Google Earth, Surfer 9, SMADA for Windows, EasyFit, GPS (Garmin 60) and others.