CURRICULUM VITAE

GENERAL INFORMATION

Name:	Aboubaker Ahmed Osman Ali
Date of birth:	November 9, 1974
Religion:	Islam
Nationality:	Sudanese
Language:	Arabic language (L_1) & English (L_2)
Marital status:	Married
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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: Widows office, Internet, Google Earth, Surfer 9, SMADA for Windows, EasyFit, GPS (Garmin 60) and others.