







# RUAA NASRELDEEN

Researcher Engineer  
Ministry of Irrigation and Water Resources

## Profile

My name is Ruaa Nasreldeen, Researcher Engineer at Hydraulics Research Centre (HRC), Ministry of Irrigation and Water Resources, Since December 2010. I obtained my M.Sc. degree in Water Resources Engineering from the University of Khartoum in October 2015. I granted B.Sc. degree in Civil Engineering from the Sinnar University in Jan 2007. I worked as Civil and Water Engineer with various firms/Ministry those are associated with civil engineering, consultancy service and research studies.

## Contact

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 +249124927333

 [ruaabelbasit@gmail.com](mailto:ruaabelbasit@gmail.com)

 Ruaa Nasreldeen

Languages: Arabic (mother tongue) and English



## EDUCATION

### MSC

Master degree of science in Water Resources Engineering, Graduate Faculty of Engineering, and Department of Civil Engineering, University of Khartoum, Sudan — April 2012 - Oct 2015

**Graduation thesis:** Rainfall-Runoff Modelling for Wadi AbuFargha

### BSC

Bachelor degree (V. Good, Honours 2<sup>nd</sup> Div.1) of science, Department of Civil Engineering, Faculty of Engineering, University of Sinnar, Sinnar, Sudan — Nov 2000 -Jan 2007

**Graduation thesis:** Building Analysis and Design Modelling for Sinnar University Buildings' Proposal



## EXPERIENCE

**Assistant Researcher and Researcher Engineer, Hydraulics Research Centre (HRC), Ministry of Irrigation and Water Resources, Sudan**

Khartoum, Sudan— 2021 -Present

The major role is developing research applications in area related to solved problems and challenges of water resources management in Ministry and Sudan.

WadMedani, Sudan— 2010 -2015

As assistant Researcher by collected data, analysis and wrote reports. Participated in one of our consultancy studies “The Investigation of Kenana2 pumping site – the White Nile River, also in many research activities carried by the different research unites at HRC “ Sediment monitoring , Calibration of Gezira and Managel off-take at Sinnar, possibility of cultivating sugarcane at Hurga and Nureldenn scheme, Spate Irrigation program in Kassala state ... etc”.

Registered Professional Engineer, Sudan Engineering Council, No. Civil 3092, 7 Jan, 2019. Registered Full Member of the Sudan Engineering Society, 12Dec. 2017

Date of Birth: September 17th, 1982

Gender: Female

Place of Birth: Khartoum, Sudan

Nationality: Sudanese

Marital status: Nour (Three Kids)

#### Current position:

Researcher Engineer

Ministry of Irrigation and Water Resources

Nile Street, Khartoum, Sudan

**Researcher Engineer and Knowledge Transfer and Information Coordinator UNESCOII Regional Centre for Capacity Development and Research in Water Harvesting, Ministry of Irrigation and Water Resources.**

Khartoum, Sudan— 2016 -2017

The Major role is Research Engineer and Knowledge Transfer and Information Coordinator, the work tackled includes field and office data collection, data processing validation and analysis, documentation and finding reporting and knowledge transfer and information activities.

**Technical Secretary, Ethiopia Sudan Technical Advisor Committee in Sudan, the Water Resources Technical Organ, Ministry of Irrigation and Water Resources.**

Ministry, Khartoum, Sudan— 2016 -2017

**GIS Specialist, “practical consultant company”, Private consultancy office.**

Khartoum, Sudan— 2014 -2015

Delineated more than 20 Wadis in deferent states of Sudan by HEC-geoHMS

**Teaching Assisting in University of ElzaiemAlazhar**

Omdurman, Sudan — 2013 -2014

**Good experience in civil work construction, worked with private construction and consultancy office.**

Sudan — 2007 -2009



## SKILLS

Project management	MS-Office	Arabic	<div style="width: 100%; height: 10px; background-color: yellow;"></div>
Remote Sensing	ERDAS		
GIS	ArcGIS	English	<div style="width: 80%; height: 10px; background-color: yellow;"></div>
Hydrological modeling	HEC-HMS		
High ability for learning with capability for analysis	SOBEK	Chinese	<div style="width: 20%; height: 10px; background-color: yellow;"></div>
	ETABS		
<b>Professional</b>	<b>Software</b>	<b>Languages</b>	

## History of Employment:

	Name of Institution	Location	Position	From – To
1.	Hydraulics Research Centre, Ministry of Irrigation and Water Resources.	Khartoum, Sudan	Researcher Engineer Assistant Researcher	Mar., 2021-Heretofore Dec., 2010-Dec.2016
2.	UNESCOII Regional Centre for Capacity Development and Research in Water Harvesting, Ministry of Irrigation and Water Resources.	Khartoum, Sudan	Research Engineer and Knowledge Transfer and Information Coordinator	Jul., 2017- Jul., 2018
3.	The Water Resources Technical Organ, Ministry of Irrigation and Water Resources.	Khartoum, Sudan	Technical Secretary of Ethiopia Sudan Technical Advisor Committee in Sudan	Nov., 2016- Jun., 2017
4.	The General Directorate of Ground Water and Wadis, Ministry of Irrigation and Water Resources.	Khartoum, Sudan	Hydrologist Engineer	Jun, 2016-Oct., 2016 Aug.,2018- Aug.,2019

## Awards:

- |   |                              |
|---|------------------------------|
| 1. Egypt Government scholarship for short course student      | (May - July, 2011)           |
| 2. Netherland Government scholarship for short course student | (September, 2011)            |
| 3. Sudan Government scholarship for MSc course student        | (April, 2012- October, 2015) |

## Teaching experience:

- Teaching Assistant on hydrology and Irrigation for undergraduate students. Faculty of Engineering and Department of Civil Engineering, University of ElzaiemAlazhari, Sudan (August-December,2013).

## Publications:

- Youth Competition Poster Presentation on "Runoff forecasting for Atbara Catchment at Upper Atbara and Setit Dam Complex" displayed at global platform on DRR in Cancun, Mexico. (May 2017)
- Conference Paper in Water Management in Arid land and Semi-Arid - Land in Jordan Ruaa , Abdelbasit (2017) 'Assessment of Wadi Hydrological Process by Using Modeling Under Semi- Arid Environment in Sudan', Jordan Civil Engineering Journal, 14Jul. [www.just.edu.jo/jjce](http://www.just.edu.jo/jjce). (14Jul 2017).

3. Disseminate project at the NASA - Strengthening Disaster Risk Reduction across the Americas Summit "RUNOFF FORECASTING FOR ATBARA CATCHMENT AT UPPER ATBARA AND SETIT DAM COMPLEX". <https://kubeworks.wixsite.com/argentina-summit> (Sep 2017)

### **Training:**

1. Training course on "Water management and Dam Operation", at Ministry of Irrigation and Water Resources, Khartoum, Sudan. (October 2021)
2. Training course on "Dam Safety management", at Ministry of Irrigation and Water Resources, Khartoum, Sudan. (January 2021)
3. Training course on "Hydrodynamics software, Delft3D" at HRC in Wad Medani, Sudan. (Jul 2015)
4. The advanced training course on "Geographic Information System GIS and Remote Sensing RS" at HRC in Wad Medani, Sudan. (Jun 2015)
5. Geographic Information System GIS introduction course at HRC "Wad Medani, Sudan". (Oct 2011).
6. Training course on "Spate Irrigation and Water Management under Drought and Water Scarcity" at UNICCO IHE in Delft, Netherland. (Sep,2011)
7. Training course on "Environmental Hydrology for Arid and Semi-Arid Regions" in Delta Barrage, Egypt. (May to July 2011)
8. Training at the General Directorate of Planning, the General Directorate of Dam, the General Directorate of Water Resources, the General Directorate of Projects and the Hydraulic Research center, Ministry of Water Resources, Irrigation and Electricity. (May to Oct 2010)

### **References:**

1. A.Prof /Abu Obieda Ahmed , DG of Hydraulics Research Center [hrs\\_abdo@hotmail.com](mailto:hrs_abdo@hotmail.com)
2. Seifeldin Abdalla (Ph.D.) Water Resources Technical Organ [seifeldin\\_eltwaim@yahoo.com](mailto:seifeldin_eltwaim@yahoo.com)
3. ModathirZaroug (Ph.D.) Hydraulics Research Center [modathir\\_23@yahoo.com](mailto:modathir_23@yahoo.com)
4. Kamal Bashar (Ph.D.) Omdurman Islamic University [basharke@gmail.com](mailto:basharke@gmail.com)
5. BabikerBarsi (Ph.D.) University of Khartoum [d\\_barsi@hotmail.com](mailto:d_barsi@hotmail.com)