

## CURRICULUM VITAE

### Personal Data:

Name	Ishraga Sir Elkhatim Osman Mohamed Ahmed
Date of birth	30-10-1979
Place of birth	Port Sudan
Nationality	Sudanese
Status	Married
Address	Civil Engineering Department, University of Khartoum, P. O. Box 231, code 11111 Khartoum, Sudan.
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### Education:

May 2010-Sept 2015	PhD degree from Wageningen University and UNESCO-IHE Institute for Water, the Netherlands
Sept 2005- Jun 2007	M.Sc. degree in Water Resources Engineering, University of Khartoum, Sudan
1996-2002	B.Sc Honours (Second Class Div 1), Department of Civil Engineering, Faculty of Engineering & Architecture, University of Khartoum, Sudan
1993-1996	Secondary school: Comboni School, Port Sudan, Sudan
1990-1993	Intermediate school: ElAmiria School, Port Sudan, Sudan
1984-1990	Primary school: Elshergia School, Port Sudan, Sudan

### Personal Experience:

1/10/2015-up to date	Assistant professor, Department of Civil Engineering, University of Khartoum (permanent contract - until the retirement age)
1/2/2009 -30/9/2015	Lecturer ; Division Water and Environment, Department of Civil Engineering, University of Khartoum (permanent contract- until the retirement age)
1/9/2003 -31/1/2009	Researcher, UNESCO Chair in Water Resources (permanent contract)
1/9/2002 -31/1/2009	Teaching assistant; Division Water and Environment, Department of Civil Engineering, University of Khartoum (part time)
1/11/2002 –1/9/2003	Irrigation Design Engineer; Khartoum University Consultancy Corporation (part time)
13/8 - 13/9/2002	Training in Water Resources Management; Ministry of Irrigation and Water Resources, Khartoum
1/7 - 1/8/2001	Training as Site Engineer; The Engineering Circle Company LTD - Khartoum

### **Prize award and Scholarships:**

5/2010-9/2015	The Netherlands Organization for International Cooperation in Higher Education (NUFFIC) grand for PhD study
6/2013-12/2014	A fund attained for field research from IFS (International Foundation for Science), Sweden
2002	Awarded the University of Khartoum prize for best performance in soil mechanics, Sudan

### **Courses, Workshops and Seminars:**

21/2-26/2/2016	Expert Consultation Workshop: Upgrading the Gezira Scheme in Sudan, HRC- Wad Madani, Sudan. The output of the PhD research was presented “Impact of Improved Operation and Maintenance on cohesive Sediment Transport in Gezira Scheme, Sudan”
28/11-9/12/2015	Participated on 2015 China-Sudan symposium on advance material and technique in Civil Engineering and Training program of civil Engineering teachers from Sudan Universities, Yangzho University, China by presentation titled “Simulation of fine sediment transport in irrigation canals using numerical model FSEDt, case study: Gezira Scheme, Sudan”
25-27 /9/2013	Environmental Research in Context course, SENSE School , Soest, Stayokye, The Netherlands
4/2012	Training on Research formulation, methods and skill, University of Khartoum, Sudan
1/3-26/5/2011	Training course on Service oriented management of irrigation systems, UNESCO-IHE, the Netherlands.
1/5-25/5/2010	Conveyance systems -Sediment transport in irrigation canals, UNESCO-IHE, the Netherlands.
27/7-17/8/2008	Training course on River & Groundwater Quality Assessment & Modeling, UNESCO Chair in water Resources.
8/6-12/6/2008	Training course on Design of Water Distribution Networks using Haestad Water Cad Model, UNESCO Chair in water Resources
23/3-27/3/2008	Training course on HEC-HMS Hydrological Modeling System and HEC-RAS Hydraulic River System, UNESCO Chair in water Resources.
15/1-25/2/2007	Distance Learning Course on Geographic Information System (GIS) at International Institute for Geo-Information Science and Earth Observation (ITC), the Netherlands.
12/11-15/11/2006	Member of the organizing committee and one of the participant in the “International Sediment Initiative Conference”, Friendship Hall, Khartoum,
10/10-20/10/2006	Training course on Radar Technology, UNESCO Chair in water Resources, and Khartoum, Sudan.
7/4-14/4/2006	Course on Water Resources Planning & Management, , UNESCO Chair in water Resources, Khartoum, Sudan
6-11/3/2005	Capacity building training workshop on the <b>USGS</b> Stream Flow Model and Flood Monitoring Product, UNESCO Chair in water Resources
11/1-18/1/2005	Training workshop on Ground Water Protection, University of Khartoum, Sudan

25/12/2004-4/1/2005	Course on Introduction to Geographical Information System, UNESCO Chair in water Resources
5-10 /9/2004	Member of the Organizing Committee in the 1 <sup>st</sup> Regional Training of Trainer in Integrated Water Resources Management, Khartoum - Sudan
22/5-5/7/2004	Course on Environmental Hydrology in Arid and Semi Arid Region, Hydraulic Research Institute (HRI), Delta Barrage - Egypt
10/9 - 13/11/2002	Course on Effective Project Management, Center for Engineering and Technical Studies, Khartoum, Sudan
29/9 - 3/10/2002	Participation on Nile Basin Capacity Building Network Workshop in River Morphology, Khartoum, by presentation titled: The Stability Analysis of a Natural Slope on the River Nile

### Researches, Projects and publications:

- ❑ **Osman I. S**, Akode Osman (2016). “Towards better Management of Sediment and Water in Gezira Irrigation System, Sudan”. Proceedings of 7th Annual Conference of Postgraduate Studies and Scientific Research (Vol.1: ENGINEERING). University of Khartoum, Sudan. University Of Khartoum Engineering Journal, ISSN: 1858-6333  
<http://ejournals.uofk.edu/index.php/kuej/article/view/794>
- ❑ **Osman I. S**, Schultz B., Osman A., Suryadi F. (2016). Simulation of fine sediment transport in irrigation canals of the Gezira Scheme with the numerical model FSEDt. *Journal Irrigation and Drainage Engineering*, 10.1061/(ASCE) IR.1943-4774.0001031, 04016049.
- ❑ **Osman I. S.**, Schultz B., Osman A. and Suryadi F. (2016). Effects of different operation scenarios on sedimentation in irrigation canals of the Gezira Scheme, Sudan. *Irrigation and Drainage Journal*.
- ❑ **Osman I. S.** (2015). Impact of Improved Operation and Maintenance on cohesive Sediment Transport in Gezira Scheme, Sudan. PhD thesis, UNESCO-IHE, Delft, the Netherlands. As part of “In Search of Sustainable Catchments and Basin-wide Solidarities; Transboundary Water Management of the Blue Nile River Basin” project between Sudan, Ethiopia and the Netherlands.
- ❑ **Osman I. S** and Akode Osman (2014). The effect of Blue Nile sediment load in irrigation canals. Case study: Gezira Scheme. A paper presented at the scientific Symposium: “Eastern Nile Cooperation: Opportunities for Regional Development” March 10th -12th, 2014, Khartoum, Sudan
- ❑ **Osman I. S.**, Akode O., Mohamed Y., Schultz B. (2013), “Sedimentation in irrigation in Gezira Scheme, Sudan”. A paper presented at the New Nile Perspectives - Scientific advances in the Eastern Nile Basin conference, Khartoum, Sudan, May 6-8, 2013
- ❑ **Osman I. S.**, Schultz B., Suryadi, Mohamed Y., Akode O. (2011), “Improving the operation and maintenance for better sediment and water management in

Gezira Scheme, Sudan”. A paper presented at the 21<sup>st</sup> International Congress on Irrigation and Drainage, Tehran, Iran, October 15-23, 2011.

- **Osman I. S.**, Musnad M., Ibrahim Y. (2008), “Ground Water Pollution Assessment Using Geospatial Model Case Study: Khartoum- Sudan,
- **Osman I. S.** (2007), “Use of Space Technology in Water Resources Management; case of Gash River Basin”, Dissertation submitted for the degree of M.Sc., Dep. of Civil Eng., University of Khartoum.
- **Osman I. S.**, Ahmed A. A., Babiker A. (2006) “Sediment and Aquatic Weeds Management Challenges in Gezira Irrigated Scheme”, International Sediment Initiative Conference, Friendship Hall, Khartoum, Sudan, November 12-15, 2006.
- Ahmed. A.A Oct (2004) “Sudan National Water Development Report“, UNESCO Chair in Water Resources, Sudan
- **Osman I. S.**, Ahmed. E .H, Mosa, S .H(2002) “Stability Analysis of a Natural Slope on the River Nile” final year thesis, Department of Civil Engineering, University of Khartoum, Sudan
- Member of the investigation team in the Nile Basin Capacity Building Network (NBCBN) Local action project; “Assessment of water supply sources and system of potable water in Khartoum metropolitan in relation to liquid disposal”.
- Member of the River Morphology Cluster of the NBCBN, involved in “Nile Basin Reservoir Sedimentation Prediction and Mitigation project”.
- Participate in the FRIEND/NILE Project, Sediment Transport & Watershed Management Component.
- Neggar O.M, Fadul. H, Ahmed A.A, **Osman I. S. (Editors)** (2003) “Water Harvesting for Food Security & Sustainable development”, proceeding of the conference on Water Harvesting & the future of development in Sudan, Friendship Hall, Khartoum, 19-20 August 2003, UNESCO Chair in Water Resources, Sudan

### University and departmental responsibility

Dec 2015-present	Course coordinator for two master programs; Diploma/ Master program in Water Resources Engineering and Diploma/ Master program in Sanitary and Environmental Engineering. Role involves organizing teaching activities for master students, advising students on the selection of research papers, monitoring of the progress of the students and ensuring that they fulfil their academic commitments and dealing with problems which could affect their academic performance. Set the time schedules for each course and ensure that the all the master candidates fulfil the university requirements to be accepted. Preparing the exam papers in coordination with the lecturers who teach the relevant courses.
Oct 2015-present	Involve in teaching several courses for undergraduate and master students such as Environmental Hydrology & Hydraulics, Irrigation and drainage course, hydrology course, open channel hydraulics, hydraulic structure course, and sediment transport course. Supervise final year students in their researches.
2009-Oct 2015	I delivered different courses in the Department of civil Engineering, including: Fluid mechanics 1, Fluid mechanics 2 and Hydraulic structure. In addition to that supervising students in their final projects
2009- present	Staff in Water Research center at University of Khartoum. Involve in organizing, workshops, training courses and many activities.

**Computer skill:**

- ❑ Microsoft Office Suite, Primavera, AutoCAD, Delft 3D, ArcView GIS 3.2a, Global Mapper, ENVI 4.0, ArcGis 9.3, ERDAS IMAGINE 8.5, SETRIC (Sediment Transport Irrigation Canal) model, SMS (Sediment Modeling System), HEC-RAS and HEC- HMS.

**Languages:**

Arabic, English

**Activities & Hobbies**

- ❑ Member of Sudan Engineering Society.
- ❑ Member on the Nile Basin Capacity Building Network, River Morphology cluster
- ❑ Reviewer for, ASCE Journal of *Irrigation and Drainage Engineering*.
- ❑ Member of Water Technology Society, duties include arrangement of Seminars and lectures to raise public awareness on the importance of preserving water resources.
- ❑ Reading novels, scientific journals and publications, listening to music.

**Referees:**

- ❑ Prof. Bart Schultz, Emeritus Professor of Land and Water Development, UNESCO-IHE Institute for Water Education. Address: P.O. Box 3015, 2601 DA Delft, THE NETHERLANDS. Phone: +31 15 2151734, home: +31 320 222775, E-mail: [b.schultz@unesco-ihe.org](mailto:b.schultz@unesco-ihe.org)
- ❑ Prof. Gamal Abdo, Director of Water Research Centre, University of Khartoum. Address: P.O. Box 231, 11111 Khartoum, Sudan. Phone: +249122123825, E-mail: [gabdo2000@yahoo.com](mailto:gabdo2000@yahoo.com)