

RESUME

Personal data:

Name: Anwar-Elsadat Eltayeb Elmahal.
Marital status: Married .
Nationality: Sudanese.
Date of birth: 21/10/1964
Place of birth : Sudan

Languages:

Academic Qualifications:

- PhD in Water Development and Management, with Specific Reference in GIS/RS applications, UNESCO Chair in Water Resources, OIU, Sudan. Aug 2013
- Master of Science in geographical information science (GISc). University of London, United Kingdom, November 2003.
- Bachelor of Science. University of Khartoum, Sudan, May 1987.

Other courses:

- Introduction to Sustainability, University of Illinois at Urbana-Champaign Jan-2014, at <https://www.coursera.org/>. Served as a community Teaching Assistant for the same course for two consecutive periods.

ESRI certifications and courses

- Conservation GIS, using ArcView 3.X, 6 modules (certified).
- Programming with avenue, 6 modules (certified).
- Map Objects basics, one module (certified).

Experiences:

- **2016- up-to-date** GIS lecturer in the geoinformatics' master program at Elneelain University, teaching mainly Web GIS, components, environments and applications with specific reference on OSGEO and OGC standards
- **2016- up-to-date** GIS/RS lecturer at the university of Khartoum , Faculty of Surveying Engineering in the geomatics' master program mainly focusing on digital image processing and advanced GIS applications.
- **2015-2016** GIS/RS lecturer at the university of Khartoum , Faculty of Geography and environmental studies, supported the master program in GIS and RS and supervised 8 students in GIS applications in hydrology, geomorphometry, hydro geomorphology, planning and desertification.

- **2008-2009** , GIS Lecturer at Alzaim Alazhari University , mainly focused on GIS Applications on Engineering Geology for B.Sc candidates.
- **2011- up to date** , GIS Specialist UNICEF, SCO, Planning , Monitoring and Evaluation Section.
- **FAO National GIS national consultant(14 days consultancy)** , mainly providing the scientific and technical advise concerning data collection, Geographic database construction , GIS analysis and map production. Managed during this period to establish, restructure and reform GIS units supported by **FAO** in Soba and Shambat including GIS/RS courses design and implementation.
- **2008-2011 LESP Project GIS Consultant** (European Committee), providing the technical supervision concerning the GIS mission of the European Committee in Sudan, providing the technical supervision , GIS development and upgrading or reforming GIS units including software, hardware and personnel capability.
- **Jan 2009 up to date General Manager** ,GISVISIONS for geographic information consultancies.(Khartoum).
- **August 2009 – July 2011, GIS Consultant**, Khartoum State Water Corporation KSWC , .
- **July 2006 – August 2009 GIS Manager**, Raqem Co , for services and training, Sudan.
- **1990 - 2006** , Ministry of Education, U.A.E, as a science and environmental teacher, mainly teaching a syllabus of environmental sciences. Awarded during this period a certificate of (BEA), better environment awards from Shell company , ministry of education and the federal environmental agency (U.A.E) .
- **1989 - 1990** , in R.A.K municipality, U.A.E.

Published papers:

- Impacts of soil water rise on orchard fields in Elzaidab Agricultural Schemes, Ad-Dammar Locality, River Nile State, Sudan, Elmahal et al ,. Conference: ARSGISO, At Istanbul, Volume 2:Page 47 International Journal of Geosciences and Geomatics, Vol. 2, Issue 2, 2014,ISSN:2052-5591
- Remote Sensing And GIS Techniques For Quantitative Morphometric Analysis And Change Detection: Case Study, Wadi El-Nugaa' Watershed, Almatamah Locality, River Nile State, Sudan. Elmahal et al, Page 73 International Journal of Geosciences and Geomatics, Vol. 3, Issue 1, 2015,ISSN:2052-5591
- Augmentation of vertical accuracy of digital elevation models using Gaussian linear convolution filter,Ahmed Abdalla; Anwar-Elsadat Elmahal,2016 Conference of Basic Sciences and

Engineering Studies (SGCAC), Pages: 206 - 210, DOI: 10.1109/SGCAC.2016.7458031 IEEE Conference Publications.

- Spectral Mixture Analysis (SMA) and Change Vector Analysis (CVA) Methods for Monitoring and Mapping Land Degradation/Desertification in Arid and Semiarid Areas (Sudan), Using Landsat Imagery . ABDELRAHIM SALIH , El-Tyeb S. Ganawa, Anwar Alsadat Elmahl, Egyptian Journal of Remote Sensing

Papers on progress:

- Applications of GIS/RS techniques in quantifying the conflict between landuse practices and fluvial geomorphic processes in Sharq Elneel locality, Khartoum State, Sudan.
- Detecting changes in the meandering nature of blue Nile river, case study: Blue Nile River , Butri- Khartoum in Gezira and Khartoum States.
- Assessing floods in relationg to landuse practices, Khartoum State.

Other GIS activities:

- Founder of the environmental corner club(ESRI , virtual campus)
- Sharing many active clubs (ESRI, virtual campus).
- Held many GIS Seminars and workshops in many Sudanese universities and specialized institutes e.g Bayan university, Juba university, Alzaeem Alazhari university, DAM implementation unit, desertification research institute and many other Sudanese governmental and non-governmental organizations

GIS interests:

- Geomorphometric analysis.
- Geomorphological mapping.
- GIS analysis and mapping including geo-statistical methods.
- Conservation GIS, including Archaeology and Society.
- Digital elevation models and their applications in environmental sciences..
- GIS uncertainties, blunders, errors, their reduction and control.
- Data quality.
- Remotely sensed data and their applications in temporal analysis.
- GIS /RS integration.

GIS Skills:

- Lecturing, coaching and mentoring.
- GIS /RS Consultancy.

- GIS /RS projects management.
- GIS/ RS/GPS training.
- GIS/GPS/RS integration.
- GIS research.
- Batch geo- processing techniques with Model Builder .
- GIS GUI environment customization using VBA.
- GDB management for personal and multiuser databases.

GIS / RS SOFTWARE

- Very familiar with web gis different environments and applications including qgis clouds , arcgis online, goeservers, postgresql and postGIS.
- Familiar with many open sources GIS , e.g GRASS, SAGA and Whitebox , QGIS.
- ARCGIS 10.X , all packages and extensions.
- Map Info professional 10.5
- GeoMedia Professional, 6.1
- ENVI 5.x
- ERDAS IMAGINE.
- Ready to learn and practice any GIS/RS software.

Computer and programming skills:

- Very familiar with Microsoft office 2003/007 including almost all its extensions (word, excel, access, One Note, publisher, InfoPath, front page, etc....)
- WebPages designer, using HTML editor, FrontPage , flash macromedia , Microsoft word, Microsoft office publisher and Swish2.
- Good knowledge in hardware maintenance.
- Good knowledge in Windows XP, 2000, Vista, windows 7 etc... Installation and maintenance.
- Good knowledge in visual basic programming, particularly for GIS customization needs.
- Excellent knowledge in avenue programming (ESRI certified)
- Python programming for hydrological analysis.