

# Curriculum Vitae

*(Last updated December.2014)*



## Personal Details:

**Title:** Associate Professor Dr.

**Name:** El Mamoun Haroun Osman

**Gender:** Male

**DOB:** 13/06/1959

**Nationality:** Sudanese

**Address:** Department of Forestry, CNRES, University of Bahri  
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**Marital status:** Married (five kids)

**Other IDs:** Valid Sudanese passport  
Valid driving licence

## Qualifications

- **2006, Diploma of Attendance:** (Certification of forest products), Khartoum, Sudan.

- **2003, PhD Applied remote sensing** Faculty of Agricultural Engineering, Cranfield University - UK.
- **1987, M.Sc. Forest Mensuration and Management.** Sokoine University of Agriculture - Tanzania.
- **1983, B.Sc (Hons.) Forestry.** University of Juba - Sudan.

### **Work Experience:**

- Dean, College of Natural Resources and Environmental Studies (CNRES), University of Bahri, December 2011 – To date.
- Deputy Dean, CNRES, September 2011 – December 2011.
- Head, department of Forestry, CNRES, University of Bahri, July 2011 – August 2011.
- Head, department of Forestry, CNRES, University of Juba, May 2008 – July 2011.
- Head, department of Forestry, CNRES, University of Juba, 1993-1998
- Acting Dean, CNRES, University of Juba, 1998.
- Assistant Professor, CNRES, University of Juba 2003
- Lecturer, CNRES, University of Juba 1987.
- Teaching assistant, CNRES, University of Juba 1984.

### **Awards and Prizes**

- Second best student in the primary school certificate examination of the Western Darfur District in - 1972.
- Included in the honorary list of the best 10 students in the intermediate school certificate examinations in Southern Darfur Province – 1975.
- Awarded the prize of the best graduating student in the Department of Forestry, University of Juba – 1983.
- Awarded Juba University studentship - 1984
- Awarded DAAD in-country scholarship for graduate studies at Sokoine University of Agriculture, Tanzania 1985 – 1987.

### **Key skills and competencies:**

1. Substantial experience in teaching and practical field application of Forest Mensuration, Inventory, Surveying, Biometrics and Management, Remote Sensing, GIS.
2. Experience in curricula development, Field training, planning, organization, and capacity building.
3. Long experience in preparing forest management and working plans.
4. Proven ability to manage and process satellite images effectively and provide quality professional service in mapping, general land assessment and crop yield and production forecasting.
5. Comprehensive knowledge of satellite image processing especially with ERDAS Imagine software.
6. Practical knowledge of programming and managing satellite receiving stations for image acquiring.
7. Strong man management skills, able to motivate and develop skilled teams.
8. Other hobbies and interests include computer building, upgrading and maintenance. General DIY activities, particularly motor, TV, mobile phones and most electronic devices maintenance.
9. Knowledge and experience of MS office package
10. Knowledge and experience of ERDAS-EMAGINE, ARC-GIS remote sensing/GIS software.
11. Knowledge and experience of SPSS, SAS, DatFit statistical software
12. Excellent written and spoken communication skills in both Arabic and English.

## **Research domain**

1. Evaluation of the post-launch radiometric calibration effect on the spatial average NDVI as compared to the pre-launch one and the overall gain expected from the NDI normalization procedure.
2. Investigation and development of alternative cloud screening techniques within the special needs required by the NDI and the flexibility needed to satisfy local environments.

3. Investigating the validity of the existing land grade mask with respect to agriculture and urban categories and investigating their purity in the NDI normalization procedure.
4. Testing of possible alternative versions of correction factors for the compensation of error in the spatial average NDVI induced by set-aside and temporary fallow and bare lands of the agriculture mask.
5. Assessment and determination of the suitability of the AVHRR pixel resolution in targeting crop spectral signal in areas of low crop concentration.
6. Investigation and development of suitable statistical procedures for assessing national or regional crop yields where great variation in growth conditions is expected.
7. Modelling of forest growth and development
8. Forest growth dynamics.
9. I have supervised a number of undergraduate students in the broad discipline of forest biometrics and management (over 500 undergraduate and 6 MSc students).
10. I have also acted as an internal and external examiner for a number of graduate students (3 PhD and 2 MSc).

### **Professional Experience:**

- Assistant Dean of Students, University of Juba, Kadaru campus.
- Examination officer, CNRES. University of Juba
- Time table officer, CNRES), University of Juba
- Transportation Officer, CNRES, University of Juba.
- Stores manager, CNRES, University of Juba.
- Manager of staff cafeteria, CNRES, University of Juba.
- Participated in a workshop on forestry education. 1998, ICRAF (International Centre for Research in Agroforestry), Nairobi, Kenya.
- Operator and programmer, Satellite Receiving Station, Cranfield University, 2001-2003.
- Participated in a workshop on remote sensing and information technology, 2005, Friendship Hall, Khartoum, Sudan.

- Attended a workshop on environmental studies on the Sudd Region. Geo3 Forum, European Commission, Khartoum, Sudan, March 2006.
- Participated in a workshop on natural resources, land use and map of Darfur, Darfur land commission, Khartoum, Sudan, Dec. 2009.
- Member, Steering committee of Landscape Management planning and training for the environment in south Sudan (Finland – Sudan) (2009 – 2011).
- Participated in assessment visit, University of Helsinki Forestry Research Station, Finland, 2010.

### **Other extra-curricular activities:**

- Member of the University Senate University of Juba (1993 – 1998) and University of Bahri (2005 to date).
- Member, College Board, CNRES, University of Juba (1993 – 1998) and University of Bahri (2005 to date).
- Member, Postgraduate committee, CNRES, University of Juba (2005-2011).
- Member of under/postgraduate curriculum development of the natural resources faculties and colleges, Upper Nile university, El fashir university, Sudan University of Science and technology, University of Juba and University of Bahri.
- Chairman and member of a number of academic staff, officials, workers and students investigation committees and disciplinary boards.
- Chairman, committee for curriculum development for Remote sensing centre, University of Juba, 2005.
- Student's Union election officer, University of Juba, 2009.
- Member, committee for the assessment of the parallel education system, University of Juba, 2008.
- Secretary, Central Laboratories committee, University of Bahri, 2011- to date.
- Member, committee for the formulation of academic regulations, university of Bahri, 2012.
- Member, Parallel admission committee, university of Bahri, 2012.
- Member, committee for constitution of university statutes, university of Bahri, 2012 (on going).

- Member, committee for formulation of administrative and financial regulations, university of Bahri, 2013.
- Chairman, Central Time table committee, university of Bahri 2012 to date.
- Member, Central curriculum committee university of Bahri 2012 to date.
- Member, Committee for the formulation Graduate academic regulations, 2014.
- Member, committee for editing and publishing a book on the University of Bahri Facts and Figures, 2014.
- Member, committee for editing and publishing a report on the University of Bahri Academic, Administrative and Financial achievements, 2014.

## Publications

- 1) **Osman**, E. H. and Idris, E. A. (2012). Comparative study on the efficiency of some selected sampling designs in assessing Miombo woodlands. *JFPI*, 2012, 1(1):4-10. ISSN:2325 – 4513(PRINT) ISSN 2325 - 453X (ONLINE)
- 2) Idris, E. A. and **Osman** E. H. (2012). Influence of site factors on the performance of natural regeneration of Cupressus Lusitanica in Beldong Forest. *JFPI*, 2012, 1(1):17-22. ISSN:2325 – 4513(PRINT) ISSN 2325 - 453X (ONLINE) .
- 3) **Osman**, E. H. and Idris, E. A. (2012). Species dynamics and potential disturbances in El Nour natural forest Reserve, Sudan. Forest. *JFPI*, 2012, 1(2):10-20. ISSN:2325 – 4513(PRINT) ISSN 2325 - 453X (ONLINE) .
- 4) **Osman**, E. H., Idris, E. A. and Ibrahim, E. M. (2013). Modeling Height-Diameter Relationships of Selected Economically Important Natural Forests Species. *JFPI*, 2013, 2(1):34-42. ISSN:2325 – 4513(PRINT) ISSN 2325 - 453X (ONLINE)
- 5) **Osman**, E. H., Idris, E. A. and Ibrahim, E. M. (2013). .Height-Diameter Prediction Models for Some Utilitarian Natural Tree Species. *JFPI*, 2013, 2(2):31-39. ISSN:2325 – 4513(PRINT) ISSN 2325 - 453X (ONLINE)
- 6) **Osman**, E. H. (2013). Demonstrating an Efficient Algorithm for Cloud Detection and Removal for Satellite Images. *JGIS*, 2013, 1(1), 7:15. ISSN: 2328-4595 (PRINT), ISSN: 2328-4609 (ONLINE).
- 7) **Osman**, E. H. (2013). Forecasting Average Cereals Yield Using Optical Remote Sensing Indicators. *JGIS*, 2013, 1(1), 7:15. ISSN: 2328-4595 (PRINT), ISSN: 2328-4609 (ONLINE).

- 8) **Osman**, E. H. (2013). Validation of the NDI-based Crop Yield Forecasting Methodology in the Iberian Peninsula. *J AIS*, 2013, 1(3), 30:43. *ISSN: 2328-4595 (PRINT), ISSN: 2328-4609 (ONLINE).*
- 9) Idris, E. A. and **Osman**, E. H. (2014). The Effect of Coniferous Plantations (*Cuperssus lusitanica*, *Pinus radiate* and *Pinus patula*) on the soil of Jebel Marra. *JFPI*, 2014, 3(3), 167-169> *ISSN: 2325-4513 (print). ISSN 2325-453X (online).*
- 10) Ibrahim, E. M., **Osman**, E. H. and Idris, E. A. (2014). Modeling the Relationship between Crown Width and Diameter at Breast Height for Naturally Grown Terminalia Tree Species. *JONRES*, 2(2), 42-49, 2014, *ISSN 1683-6456 (Print), ISSN 2332-0109 (online).*

## **Books (In press):**

- الجرد الغابي – الجزء الأول
- الجرد الغابي – الجزء الثاني