

CURRICULUM VITAE

1. **Family name:** EL KAROURI
2. **First names:** ABDULLAHI MOHAMED OSMAN
3. **Date of Birth:** 1940
4. **Nationality** SUDANESE
5. **Civil Status:** MARRIED (7 CHILDREN)
6. **Education:**

(Date from – Date to)	Institution & Degree obtained
1959 – 1964	B.Sc. (Agric.) Class 1, Faculty of Agriculture, University of Khartoum
1964 – 1968	Ph.D. Nottingham University, U.K. Ph.D. Title “The Influence of Internal Factors of Leaves in the Photosynthesis of a Wheat Crop”

7. **Address:**
Mobile Tel.: +249 912394161
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8. **Language skills:**

Language	Reading	Speaking	Writing
Arabic	Excellent	Excellent	Excellent
English	V. Good	V. Good	V. Good

9. **Membership of professional bodies:**
 - Member of The Union of Sudanese Agriculturalists

10. **Present Position:**
 - Freelance Consultant

11. **Key qualifications:**

Agricultural sciences in general with reference to Agronomy over a period of more than 35 years key professional experience. Expertise has been developed in initiating and conducting agricultural research programmes, contribution to and appraisal of feasibility studies of agricultural projects, teaching and formulation of courses in crop physiology and production, both at the undergraduate and graduate levels.

12. **Specific experience in the region:**

Country	Date From:	Date to:
Sudan	1998 to date: (except for the period 1983 – 1988)	
Saudi Arabia	1983 – 1988 Teaching and research	
Mauritania	1976 Preparation of a feasibility study for a project	
Libya	1997 and 2001 preparation of feasibility studies for two irrigated projects in Sudan	
Mozambique	2003 Preparation of feasibility studies for two projects	

13. **Employment Record:**

Date from	Date to	Location	Institute	Position	Description
May – Sep 1964		Khartoum	Faculty of Agriculture, University of Khartoum	Senior Scholar	Department of Agronomy, supervising the laboratory and field classes for undergraduate students.
Sep 1964 – Sep. 1967		Nottingham, UK	School of Agriculture, University of Nottingham	Ph.D. Student	Laboratory and field research for the degree of Ph.D.
Sep. 1967 – July 1968		Sydney, Australia	School of Biological Sciences, Macquarie University	Ph.D. Student	Analysis & interpretation of research results which were carried out in Nottingham and then writing the Ph.D. thesis which was then submitted to the University of Nottingham.
July 1968 – July 1975		Khartoum	Faculty of Agriculture, University of Khartoum	Lecturer	Department of Agronomy, Faculty of Agriculture. Teaching undergraduate and graduate students different courses on the physiology and production of crops and conducting my own research and supervising research of M.Sc. Students (details of courses and research programmes below)
July 1975 – July 1983		Khartoum	Faculty of Agriculture, University of Khartoum.	Associate Professor	Work as above
July – Sept. 1983		Khartoum	Faculty of Agriculture, University of Khartoum.	Professor	Work as above
Sep 1983 – June 1988		Al Hassa, Eastern Region, Saudi Arabia	Faculty of Agricultural and Food Sciences, King Faisal University	Professor	Teaching undergraduate and graduate courses in crop production and crop physiology and range management. Initiated a programme for the M.Sc. degree for the first time in King Faisal University.
June 1988 – Dec. 1990		Khartoum	Faculty of Agriculture, University of Khartoum.	Professor	Research work and teaching with special emphasis on graduate training
Dec. 1990 – to date		Khartoum	Retired	Freelance Consultant	Institutions, organizations and firms where I have carried out short and long-term assignments are given below. Main task is conducting and appraising feasibility studies for agricultural projects and assessment of technical studies and reports..

14. Other relevant information

Professional & Technical Contributions: 1968 – 1990

Since 1968 I was engaged in the construction, modeling and teaching various courses in the Department of Agronomy, Faculty of Agriculture, University of Khartoum and Department of Crops and Range, Faculty of Agricultural and Food Sciences, King Faisal University, both at the undergraduate and graduate levels. The courses included the Botany and Production of all field crops.; cereal crops, , oil crops, fiber crops, leguminous crops under rain-fed and irrigated conditions. Plant and Crop Physiology, Cropping patterns, Crop Seeds and Seeding, Weeds and Weed Control, Fertilizers and Manures, Principles of Crop Production and Land Use.

Supervision of Post-graduate studies:

I have supervised the research and theses of 15 M.Sc. (Agric.) students, 14 in the University of Khartoum and one in King Faisal University and acted as Co-supervisor and Examiner for a number of M. Sc. (Agric.) students.

Research Publications:

I have initiated and conducted my own research by myself and in collaboration with other colleagues in the University of Khartoum, King Faisal University and the Agricultural Research Corporation and National Research Council, Sudan, and in the Welsh Plant Breeding Station, Aberystwyth and Department of Agronomy and Range Science, Davis, California, USA.

- Osman, A.M. (1968). Effect of Aging of Leaves on the Photosynthesis of a Wheat Crop. *Proceedings of the Ninth General Meeting of the Australian Society of Plant Physiologists*. June 1968, Canberra, Australia.
- Osman, A.M. and Milthorpe, F.L. (1971). Photosynthesis of Wheat Leaves in Relation to Age, Illuminance and Nutrient Supply. I. Techniques. *Photosynthetica* 5 (1), 55-60.
- Osman, A.M. and Milthorpe, F.L. (1971). Photosynthesis of Wheat Leaves in Relation to Age, Illuminance and Nutrient Supply. II. Results. *Photosynthetica* 5 (1), 61-70.
- Osman, A.M. (1971). Root Respiration of Wheat plants as Influenced by Age, Temperature, and Irradiation of Shoots. *Photosynthetica* 5 (2), 107-112.
- Osman, A.M. (1971). Dry-matter Production of a Wheat Crop in Relation to Light Interception and Photosynthetic Capacity of Leaves. *Annals of Botany* 35 (143), 1017-1035.
- Osman, A.M. (1974). Effects of Temperature on the Photosynthetic Efficiency and Growth of some Sorghum Varieties. *Eleventh Research Colloquium on Cereal Crops in the Sudan*. Wad Medani, Sudan.
- Abdelmagid, A.S. and Osman, A.M. (1975). Influence of Storage Period and Temperature on Viability and Chemical Composition of Cotton Seeds. *Annals of Botany* 39, 237-248.
- Abdelmagid, A.S. and Osman, A.M. (1977). On the Germination and Changes in Chemical Composition during Seedling Emergence and Development of Cotton Seeds. *Annals of Botany* 41, 697-705.
- Osman, A.M., Goodman, P. and Cooper, J.P. (1977). The Effects of Nitrogen, Phosphorus and Potassium on Rates of Growth and Photosynthesis of Wheat. *Photosynthetica* 11 (1), 66-75.
- Osman, A.M. (1980). A Review of Literature on Research carried out on Broad Beans (*Vicia Faba* L.) in the Sudan. *ICARDA Publications*. (This was the sole document submitted to a panel of ICARDA experts on the basis of which the research programme for the Nile Valley Project on Broad Beans was formulated).
- Osman, A.M. and Mohmoud, Z.M. (1981). Yield and yield components of wheat (*Triticum aestivum* L.) and their interrelationships as influenced by nitrogen and seed rate in the Sudan. *Journal of Agricultural Science, Cambridge* 97, 611-618.
- Mahmoud, Z.M. and Osman, A.M. (1981). Tillering of Wheat as influenced by nitrogen and seed rate in the Sudan. *Journal of Agricultural Science, Cambridge* 97, 619-627.

- Osman, A.E. and Osman, A.M. (1982). Performance of mixtures of cereal and legume forage under irrigation in the Sudan. *Journal of Agricultural Science Cambridge* 98, 17-21.
- Ibrahim, A.E.S., Osman, A.M. and Khidir, M.O. (1982). The response of groundnut (*Arachis hypogaea* L.), variety MH383, to crop density and fertilizer on the irrigated, heavy clays of central Sudan. *Oleagineux* 37 (5), 237-245.

Consultation and Research Contracts:

Since 1970 I have been engaged in feasibility studies of agricultural projects in the Sudan and abroad. During the period 1983 – 1988, I was selected by King Abdul Aziz City for Science and Technology as a Team Leader for a research project which I initiated, entitled: Adaptation and Selection of Grain Legumes under Stresses of Temperature and Salinity in Water and Soil in Saudi Arabia. The grain legumes (broad beans, chickpeas, lentil and field beans) were introduced from local sources and from ICARDA, Syria and ICRISAT, India, and from Egypt and Sudan.

On several occasions, I have acted as a consultant and/or entered into contract with different organizations and institutions in the Sudan and abroad. I either contributed as member or as leader of study teams to prepare technical and economic feasibility studies for agricultural projects. The organizations and institutions for which I acted in these capacities include:

- Ministry of Agriculture, Sudan.
- National Council for Research, Sudan.
- Arab Organization for Agricultural Development, Khartoum, projects included some in the Sudan, and others abroad..
- Union of the Arab Councils for Research, Baghdad, Iraq.
- International Centre for Agricultural Research in the Dry Areas, I CARDA, Aleppo, Syria.
- King Abdul Aziz City for Science and Technology, Riyadh, Saudi Arabia.
- Hail Agricultural Development Company, Saudi Arabia.
- Food and Agriculture Organization of the United Nations (FAO).
- Associated Consultants and Partners, Khartoum.
- National Consultancy Bureau (NCB), Tripoli, Libya.
- YAM Consultants for IFAD
- Newtech Industrial and Engineering Group.
- Higher National Council for the Environment and Natural Resources, Sudan.
- Merowe Irrigation Project, Merowe Dam Implementation Unit.

The following are the technical reports prepared for these organizations:

- Dafalla, D.A., El Karouri, A.M. and El Sheikh, A. (1970). An Assessment report on the problems of research and production of wheat in the Sudan. (Written at the request of the Minister of Agriculture, Sudan).
- El Nadi, A.H. , Kambal, A.E., El Hag, H.T. and El Karouri, A.M.O. (1971). A study of Problems of Crop Production and Mechanization in the Nuba Mountains, Kordofan Province. (Written by a group of experts nominated by the Vice-Chancellor, University of Khartoum).
- Imam, A.I., Burhan, H. and El Karouri, A.M.O. (1974). An Assessment report on Research Results and Production of Wheat in the Sudan. (Written at the request of the Permanent Under-Secretary, Ministry of Agriculture, Sudan).
- El Karouri, A.M.O. and Osman, A.H. *et al* (1975). A Technical and Economic Feasibility study of Livestock Integration in the Rahad Agricultural Project. *Publications of the National Council for Research, Sudan.*
- El Nadi, A.H., El Karouri, A.M.O. *et al* (1976). A Technical and Economic Feasibility Study of Kondi 3 Project, Mauritania, Sponsored by the *Arab Organization for Agricultural Development, Khartoum.*
- El Karouri, A.M.O. (1980). The Basic Document for the Conference on the Production and Economics of Cereal Crops under rain-fed and irrigated conditions in the Arab Countries. *Publications of the Union of the Arab Councils for Research, Baghdad, Iraq.*
- El Karouri, A.M.O. (1980). A study on the Production of Rice, Sorghum and Millet under rain-fed and irrigated conditions in the Arab Countries. *Proceedings of the Conference on*

- the Production and Economics of Cereal Crops in the Arab Countries*. Sponsored by the Union of the Arab Councils for Research, held in Khartoum on 4-7 October, 1982. (I was Coordinator for the Conference).
- El Karouri, A.M.O. (1980). Effects of Petroleum Production on the Patterns of Food Production and Consumption in the Arab Countries. *Publications of the Union of the Arab Councils for Research*, , Baghdad, Iraq.
 - El Karouri, A.M.O. *et al.* (1981). A Technical and Economic Feasibility Study of a Project for Dairy Production in the Rahad Scheme in the Sudan. *Arab Organization for Agricultural Development, Khartoum..*
 - El Karouri, A.M.O. *et al.* (1981). A Technical and Economic Feasibility Study for the Development of the Lower Atbara River Region in the Sudan. *Arab Organization for Agricultural Development, Khartoum*. Team Leader.
 - El Karouri, A.M.O. *et al.* (1983). A Technical and Economic Feasibility Study for a Project (4,200 hectares) within Soba Irrigation Project. *Arab Organization for Agricultural Development, Khartoum*.
 - El Karouri, A.M.O. *et al.* (1984-1988). Adaptation and Selection of Grain Legumes under Stresses of Temperature and Salinity in Water and Soil in Saudi Arabia. Six Progress Reports and a Final Report were submitted to and accepted by King Abdul Aziz City for Science and Technology.
 - Agricultural Mechanization Policy and Strategy Formulation in the Sudan (1995). A Technical Report prepared by FAO (TCP/SUD/4451) for the Government of Sudan. I acted as Agronomist in the Study Team.
 - A Technical and Economic Feasibility Study for an Irrigated Project in Golid, Northern State, Sudan (2001) *National Consultancy Bureau, Libya* (Area of project 84,000 hectares). Team Leader.
 - A Technical and Economic Feasibility Study for an Irrigated Project (owned by the Arab Authority for Agricultural Investment & Development) for green fodder production (for export), River Nile State, Sudan. *Arab Organization for Agricultural Development, Khartoum (2001)* .
 - A Technical and Economic Feasibility Study for an Irrigated Project in Nagu area (Metamma), River Nile State (2002). *National Consultancy Bureau, Libya* (Area of Project 42,000 hectares). Team Leader.
 - A Technical and Economic Feasibility Study for Wadi El Mukabrab Project, River Nile State (2003). (Owned by the Ministry of Agriculture, Jordan). *Arab Organization for Agricultural Development, Khartoum.(2003)*.
 - Formulation of South Kordofan Range Management Strategy (2003). *YAM Consulting Engineers*; A study sponsored by IFAD.
 - Development of Khor Abu Habil Agricultural Project (Kordofan State) (2003). *YAM Consulting Engineers*; A study sponsored by IFAD.
 - A Technical and Economic Feasibility Study for Chimunda and Paunda Projects, Republic of Mozambique (2003). *Arab Organization for Agricultural Development, Khartoum*. (The two projects are semi-mechanized and rain-fed with supplementary irrigation from a river).
 - El Karouri, A.M.O. (2004) An Technical Report on the Research and Production of Medicinal and Aromatic Plants in the Sudan. Prepared for FAO Office, Khartoum.
 - Assessment of Pre-feasibility Study of Merowe Irrigation Project (about 400,000 ha) prepared for Merowe Dam Implementation Unit, Khartoum (2003 – 2004).
 - Assessment of Feasibility Study of Merowe Irrigation Project. (Leader of a group of National Experts to review sections of this study dealing with field crops, horticultural crops and agricultural mechanization). Prepared for Merowe Dam Implementation Unit, Khartoum (2004 – 2006).
 - Assessment of Feasibility Study of Kihaila East Irrigation Project (25,000 ha), River Nile State. Prepared for Merowe Dam Implementation Unit, Khartoum (2005).
 - Translation from English to Arabic of a Feasibility Study on the use of available water for irrigation and industrial purposes. Prepared for *The National Consultancy Bureau, Tripoli, Libya* (2006 and in progress).
 - Assessment of Feasibility Study of Allar Irrigation Project (12,000 ha).Northern State. Prepared for Merowe Dam Implementation Unit, Khartoum. (2006).

- Appraisal of a report on the Assessment of the Environmental Impact of Merowe Irrigation Project. Prepared for the Higher National Council for the Environment and Natural Resources in Sudan (2006).
- Appraisal of a report on the Assessment of the Environmental Impact of White Nile Sugar Project. Prepared for the Higher National Council for the Environment and Natural Resources (2007).

Organizational and Administrative Abilities:

1971-1983:	Representative of the Faculty of Agriculture on the National Committee for Seed Propagation and Variety Release.
1972 – 1983	Member of the Faculty of Agriculture Research Board.
1973 – 1983:	Director of Faculty of Agriculture Farm and the Director of University of Khartoum Farm.
1981:	Coordinator, Committee for the Production of Cereal Crops in the Arab Countries, appointed by the Union of the Arab Councils for Research, Baghdad, Iraq.
1978-1983:	Head, Department of Agronomy, Faculty of Agriculture.
1980 – 1983:	Representative of the Faculty of Agriculture on the Academic Council of Khartoum Polytechnic (now University of Sudan for Science and Technology).
1978-1983:	Acted as Dean of the Faculty of Agriculture on several occasions during this period.
1981 – 1983:	Coordinator for the Research Partnership between Khartoum and Hamburg Universities.
1978 -1983, 1988-1990:	Member of Senate of the University of Khartoum.
1981-1983:	Member of the University Council.
1981 – 1983:	Member of the Executive and Finance Committee (Government of the University).
1978-83, 88 to date:	Member of the Faculty Board of Agriculture.

Visits to Universities, Research Institutions and Production Centres:

1966	Institute of Plant Physiology and Field Crops, Wageningen, the Netherlands.
1967 -1968	School of Biological Sciences, Macquarie University, Sydney, Australia.
June 1968	Division of Plant Industry, CSIRO, Canberra, Australia, for one week to deliver a paper to the Ninth General Meeting of the Australian Society of Plant Physiologists.
June -Sep. 1972	Welsh Plant Breeding Station, Aberystwyth, United Kingdom, as a research fellow.
May -June 1975	Represented the Sudan at the Second International Winter Wheat Conference, Zagreb, Yugoslavia. And visited Novi Sad Agric. Research Station and farms throughout Yugoslavia.
Sept. -Dec. 1975	As a Hayes-Fulbright Research Fellow, I stayed in the Department of Agronomy and Range Science, University of California, Davis, U.S.A. conducting research on sorghum varieties from the Sudan.
June 1976	Visited Mauritania as a member of a team sponsored by the Arab Organization for Agricultural Development to study Kondi 3 Agricultural Project.
May -June 1982	Visited Germany as Coordinator of the Partnership between the University of Khartoum and Hamburg University.

Sept- Oct. 1992 Visited the Netherlands to attend the Agricultural Show in Utrecht, and toured the country visiting agricultural companies and institutions and farms.

1997 and 2000 Visited Libya as Team Leader of the feasibility studies for Golid and Nagu agricultural projects in the Sudan.

2002 Visited Mozambique as Agronomist in a team from the Arab Organization for Agricultural Development to conduct a feasibility study for two agricultural projects.

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