

# Curriculum Vitae



<b>Personal information</b>	
Full Name	Haytham Mohamed Salem Mohamed
Date of birth	July, 11 <sup>th</sup> , 1982
Nationality	Egyptian
Home Address	Kafer alghool, Tal Moftah, Abo Hamaad, Sharkia, Egypt
Work Address	Desert Research Center (DRC), 1 Mathaf Al-Mataria-Cairo, 11753, Mataria, Egypt
Telephone	+201119096488
E-mail	<a href="mailto:eng_haytham1982@yahoo.com">eng_haytham1982@yahoo.com</a> <a href="mailto:haytham.salem@alumnos.upm.es">haytham.salem@alumnos.upm.es</a>

<b>Education</b>	
06/2014	International PhD, Agricultural Engineering, Rural Engineering Dept., Technical University of Madrid, Spain. Grade: Excellent with honor degree Thesis: Effect of conservation tillage on soil physical properties, in-situ rainwater harvesting, and erosion control in arid and semi-arid regions. Advisors: Prof. Dr. Miguel Angel García Prof. Dr. Constantino valero
09/2007	Master in Agricultural Sciences (Agricultural Engineering), Agricultural Engineering Dept., Zagazig University, Sharkia, Egypt. Grade: Excellent Thesis: Study on the mechanization of cowpea crop production under Egyptian conditions. Advisor: Prof. Dr. Mohamed Morad
07/2003	Bachelor of agricultural sciences (Agricultural Engineering), Agricultural Engineering dept., Zagazig University, Sharkia, Egypt. Grade: Excellent with honor degree
<b>Employment and Fellowship</b>	
07/2014 - present	Researcher, Department of Soil and Water Conservation, Desert Research Center, Cairo, Egypt.
09/2011 – 06/2014	Assistant Researcher, Department of Rural Engineering, Technical

	University of Madrid, Spain.
01/2014 – 04/2014	Assistant Project Scientist, Department of Rural Engineering, Evora University, Evora, Portugal.
03/2008 – 08/2011	Assistant Researcher, Agricultural Mechanization Unit, Soil and Water Conservation dept., Desert Research Center, Cairo, Egypt.
02/2005 – 02/2008	Researcher Assistant, Agricultural Mechanization Unit, Soil and Water Conservation dept., Desert Research Center, Cairo, Egypt.
11/2003 – 01/2005	Agricultural Engineer, Agricultural Engineering Research Institute, Agricultural Research Center, Egypt.

### **Research activities**

Participation in actives and implementation of research projects (field experimentations and laboratory analysis) including:

- 1- Conservation tillage and its effects on soil physical properties.
- 2- Water harvesting systems and rainfall simulation.
- 3- Soil and water erosion and its control under different land use and rainfed agriculture.
- 4- Water resources management and applications of GIS, Remote Sensing, and modeling in agriculture sector.
- 5- Design and development of some farm machines and laboratory implements such as (combination implement for in-situ rainwater harvesting, rainfall simulator).
- 6- Mechanizing processes of some crops for crop production such as (wheat, barley, maize, and cowpea).
- 7- Responsible for planning and execution of agricultural operations schedule from land preparation to harvest.

### **Teaching activities**

Participation in the summer training for students of the faculties of agriculture that held by Desert Research Center from 2007 to 2015, through lectures on conservation agriculture and soil erosion control and training in the use of wind tunnel and rainfall simulator devices.

Invited to give lectures in the technical programs and training held by the Desert Research Center and its statement as follows:

- Lecture: "The use of some mathematical models to predict the rates of soil erosion on Egyptian land" and that during the training program, "the development of desert areas of soil resources" in the period from 23/12/2009 to 27/12/2009.
- Lecture: "alternative strategies for the development of desert land degraded by erosion"

<p>and that during the training program "applications optimal guidance for the development of farming land and desert degraded" in the period from 18/05/2010 to 22/05/2010.</p> <p>- Lecture: "The environmental impact assessment and management of soil and irrigation water using marginal water in agricultural production" in the period from 20/12/2014 to 28/12/2014.</p>	
<b>International Training</b>	
02/2014 – 03/2014	Wireless sensors network. Evora University, Evora, Portugal.
04/2012 – 06/2012	Innovative approaches to participatory technology development in agriculture. MAIB (Mediterranean Agronomic Institute of Bari, Italy).
09/2011 – 10/2011	Spate irrigation and water Management under drought and water scarcity. UNESCO-IHE, Delft, the Netherlands.
09/2009 – 12/2009	Innovative approach for effective irrigation management and systems design at farm level. MAIB (Mediterranean Agronomic Institute of Bari, Italy).
<b>Workshops</b>	
21-26/12/2008	Rationalization of water requirements and irrigation scheduling in the new reclamation areas. Desert Research Center, Cairo, Egypt.
02-07/12/2007	Maintenance and development of economic plant resources. Desert Research Center, Cairo, Egypt.
18-22/11/2007	Safe use and optimized for neutron probe device. Desert Research Center, Cairo, Egypt.
14-19/04/2007	Sustainable development in the new reclamation areas. Desert Research Center, Cairo, Egypt.
14-20/05/2005	Manifestations of the deterioration of agriculture in desert areas newly reclaimed land and how to reduce them. Desert Research Center, Cairo, Egypt.

17-21/05/2015	Recent trends in occurrences of groundwater exploration and evaluate the quality and quantity. Desert Research Center, Cairo, Egypt.
---------------	---

## Publications

### Refereed Journals

Salem, H.M., Valero, C., Muñoz, M.A., Rodríguez, M.G., 2015. Effect of integrated reservoir tillage for in-situ rainwater harvesting and other tillage practices on soil physical properties. *Soil and Tillage Research* 151, 50-60.

Salem, H.M., Valero, C., Muñoz, M.A., Rodríguez, M.G., Silva, L. L., 2015. Short-term effects of four tillage practices on soil physical properties, soil water potential, and maize yield. *Geoderma* 237–238, 60–70.

Salem, H.M., Valero, C., Muñoz, M.A., Rodríguez, M.G., Barreiro, P., 2014. Effect of reservoir tillage on rainwater harvesting and soil erosion control under a developed rainfall simulator. *Catena* 113, 353-362.

Morad, M.M., El-Kot, A.S., Ali, M. M., Salem, H.M., 2007. Study on the mechanization of cowpea crop production under Egyptian conditions. *Misr J. Ag. Eng.*, 24(3), 450-468.

Salem, H.M., Valero, C., Muñoz, M.A., Rodríguez, M.G., 2014. Effect of reservoir and minimum tillage practices on soil physical properties, soil water tension, and rainfed barley yield. *Agricultural Water Management*. In review.

Salem, H.M., 2015. Evaluation of conservation tillage methods under conservation agriculture system in NWCZ, Egypt. *Soil and Tillage Research*. In review.

Salem, H.M., Adel, M.A., 2015. Conservation agriculture system to control wind erosion rate under rainfed conditions. *Soil and Tillage Research*. In review.

Salem, H.M., Saleh, M.S., 2015. Effect of olive mill effluents and tillage practices on soil properties and water conservation in an olive orchard in the northwestern coastal zone of Egypt. *Soil and Water Conservation Journal*. In review.

### Social skills and service

- Member of European Geosciences Union (EGU).
- Member of the Egyptian Society of Agricultural Engineering.
- Member of the Egyptian Society of Soil Science.
- Member of the General Trade Union of Workers in education and scientific research.

- Reviewed manuscripts for Cantena, African Journal of Environmental Science and Technology, and Misr Journal of Agricultural Engineering.

### **Research Projects**

- European research project "RHEA", FP7, NMP-CP-IP 245986-2.
- Monitoring soil moisture for deep profiles in rain-fed agriculture, North Western Coastal, Egypt.
- Improving rangelands and water harvesting in North Western Coastal of Egypt.
- Development of some Valleys of the North Western Coastal of Egypt.

### **Awards and Scholarships**

- Agricultural Research and Development fund (2011 – 2014).
- The Netherlands Fellowship Programmes (NFP) (09/2011 – 10/2011).
- Visiting Researcher Scholar Portugal (01/2014 – 04/2014).
- Honor Student Award, Technical University of Madrid, Spain. 2014.
- Honor Student Award, Zagazig University, Sharkia, Egypt. 2003.
- Student Award, MAIB (Mediterranean Agronomic Institute of Bari, Italy).

### **Language skills**

- Arabic: Mother tongue.
- English: reading, writing, speaking (Very good).
- Spanish: reading, writing, speaking (Good).

### **Computer skills**

ICDL Certificate, MATLAB, AutoCAD, LabVIEW, Microsoft office, Spss statistics.

### **References**

Prof. Dr. Miguel Angel García  
Department of Rural Engineering,  
Technical University of Madrid,  
Ciudad Universitaria s/n, 28040 Madrid, Spain.  
Email: [miguelangel.munoz@upm.es](mailto:miguelangel.munoz@upm.es)

Prof. Dr. Maria Gil Rodríguez  
Department of Rural Engineering,  
Technical University of Madrid,  
Ciudad Universitaria s/n, 28040 Madrid, Spain.  
Email: [maria.gil@upm.es](mailto:maria.gil@upm.es)

Prof. Dr. Constantino Valero  
Department of Rural Engineering,  
Technical University of Madrid,  
Ciudad Universitaria s/n, 28040 Madrid, Spain.  
Email: [constantino.valero@upm.es](mailto:constantino.valero@upm.es)

Prof. Dr. Gamal Beheiry  
Department of Soil and Water Conservation,  
Desert Research Center,  
1 Mathaf Al-Mataria-Cairo, 11753, Mataria, Egypt.  
Email: [G\\_beheiry@yahoo.com](mailto:G_beheiry@yahoo.com)

Prof. Dr. Luis Silva  
Department of Rural Engineering,  
Evora University, Evora, Portugal  
Email: [l Silva@uevora.pt](mailto:l Silva@uevora.pt)