



CURRICULUM VITAE

NAME: *Harby Mohamed Sorour Mostafa*

Scientific Name: **Harby Mostafa**

Date of Birth: December 17, 1977

Place of Birth: Kalyobia, Egypt

Work address: Faculty of Agriculture, 13736 Moshtohor, Toukh, Kalyobia, Egypt

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EDUCATION

September 1983- June 1989 Primary education

September 1989- June 1992 Preparatory school

September 1992- June 1995 Secondary school

September 1995- June 1999 Bachelor of Science in Agriculture, Zagazig University, Benha Branch, Egypt

October 2001- March 2004 M.Sc. Agricultural Engineering Department, Faculty of Agriculture, Benha University, Egypt

November 2006 – October 2010 Ph.D. Justus Liebig Univ. Giessen, Faculty of agricultural and nutritional sciences and environmental management, Germany

LANGUAGES: Arabic, English and German

POSITIONS HELD:

July 1999 - January 2000: An application was applied to Benha University for a Demonstrator job and this required some interviews and exams to obtain this job. These steps were finished in December and I was accepted in January 2000.

February 2000 – May 2004: Demonstrator, Agricultural Engineering Department; Benha University, Faculty of Agriculture, Egypt

May 2004 – October 2006: Assistant Lecturer, Agricultural Engineering Department; Benha University, Faculty of Agriculture, Egypt



November 2006 – October 2010: Ph.D candidate- Institute of Agricultural Technology and Biosystems Engineering- Federal Research Institute for Rural Areas, Forestry and Fisheries (vTI), Germany - in cooperation with Justus Liebig Univ. Giessen, Faculty of agricultural and nutritional sciences and environmental management, Germany.

December 2010- March 2016: Lecturer, Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Egypt.

March 2016 - March 2021: Associate Prof. Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Egypt.

April 2021 - at Present: Prof. Agricultural and Biosystems Engineering Department, Faculty of Agriculture, Benha University, Egypt.

FELLOWSHIPS:

October 2012- September 2013: Visiting Research Fellowship Program, Japan International Research Center for Agricultural Sciences (JIRCAS), Rural Development Division, Japan.

March to September 2014: Postdoctoral Fellowship, Institute of Agricultural Technology – Thünen Institute for Rural Areas, Forestry and Fisheries (TI), Germany.

January to March 2015: Invited Researcher, Scientific invitation provided by the Japan International Research Center for Agricultural Sciences (JIRCAS).

September to October 2019: Invited Researcher, provided by Talented Young Scientist Program (TYSP)-Beihang University, China.

July to December 2021: Postdoctoral Fellowship, Leibniz Institute for Agricultural Engineering and Bioeconomy– ATB, Potsdam, Germany.

AWARDS:

- “**Scientific Excellence Award**”, given by Benha University, Egypt, 2019.
- “**Scientific Excellence Award**”, given by Benha University, Egypt, 2018.
- “**Scientific Excellence Award**”, given by Benha University, Egypt, 2016.
- “**Scientific Excellence Award**”, given by Benha University, Egypt, 2015.
- “**Best Paper Award**”, given by Transstellar Journal Publications and



Research Consultancy (TJPRC), International Journal of Agricultural Science and Research, 2014.

- **“Kishida Award (Japan) For Scientific Superiority”**, given by Misr (Egypt) Society of Agricultural Engineering, 2000.
- **Supremacy certificate in Agricultural Engineering”**- International Cairo Agro Food Conference, 2000.

PROJECT MEMBERSHIP

- Member of “Effective agricultural water management” sub project under “Promoting of Rice-Production Dissemination in Africa (ProRiPDiA)” project funded by the Japanese Ministry of Agriculture, Forestry and fisheries (MAFF), supervised by Japan International Research Center for Agricultural Sciences (JIRCAS) 2012-2013.

SOCIETIES AND ORGANIZATION:

- Member of the American Society of Agricultural and Biological Engineers (ASABE).

SCIENTIFIC SUPERVISION:

- Supervisor for several postgraduate students (Master and Ph.D of irrigation Engineering)

TAUGHT THE FOLLOWING AGRICULTURAL ENGINEERING UNDERGRADUATE COURSES

- Design of Irrigation and drainage systems
- Irrigation and drainage Engineering
- Hydraulics
- Farm irrigation management
- Mathematics
- Tractors and Farm Machinery

ASSISTED IN PREPARING THE FOLLOWING UNDERGRADUATE LECTURES AND BOOKS:

- Mathematics Lectures
- Hydraulics Lectures
- Irrigation and drainage Engineering



- Agricultural Engineering (Tractors and Farm Machinery)
- Irrigation Management

PUBLICATIONS:

- **Mostafa H.**, M. El-Ansary, M. Awad and Nora Husein. 2021. Water stress management for sunflower under heavy soil conditions. *Agricultural Engineering International: CIGR Journal*, 23(In press).
- **Mostafa H.**, A. Moursy, M. El-Ansary and M. Hatata. 2021. Effects of fertigation on emitter clogging and soil infiltration rate. *Agricultural Engineering International: CIGR Journal*, 23(1): 92-99
- **Mostafa H.**, A. Farag. 2021. Effects of irrigation systems and water stress with low water and soil quality on quinoa yield in arid conditions. *Misr J. Ag. Eng.*, 38(1): 15-26. <https://doi.org/10.21608/MJAE.2020.50455.1015>
- **Mostafa H.** 2020. Influence of magnetised irrigation water on the fertigation process and potato productivity. *Res. Agr. Eng.*, 66: 43-51. <https://doi.org/10.17221/1/2020-RAE>
- Khater E., R. Hamouda and **H. Mostafa**. 2020. Changes of root zone temperature, growth and productivity of broccoli cultivated with colored plastic mulches. *Res. Agr. Eng.*, 66
- Abd-Elrahman W.A., **H. Mostafa** and A. Bahnasawy. 2019. Effect of Repeated Magnetization Process of Water on the Water and Soil Properties as well as Lettuce Yield. *Annals of Agric. Sci., Moshtohor*, Vol. 57 (1).
- **Mostafa H.**, R. M. El-Nady, M. A. Awad and M. Y. El-Ansary. 2018. Drip irrigation management for wheat under clay soil in arid conditions. *Ecological Engineering*, 121. Pp 35-43 <https://doi.org/10.1016/j.ecoleng.2017.09.003>
- **Mostafa H.** and W. Sultan. 2018. Hydraulic evaluation of locally modified emitter under laboratory conditions. *Journal of Water Supply: Research and Technology – AQUA*. 67(3). <https://doi.org/10.2166/aqua.2018.123>
- Husien N., M. Y. El-Ansary, M. A. Awad and **H. Mostafa**. 2018. Deficit drip irrigation management for sunflower crop under clay soil conditions. *Misr J. Ag. Eng.*, 35(2).
- **Mostafa H.** and Y. Antar. 2017. Improvement of center pivot irrigation system management using water-saving tillage. *Misr J. Ag. Eng.*, 34(3).
- Hatata M.S., M.Y.El Ansary, **H. Mostafa** and Ahmed A. Moursy. 2017. Effects of fertigation management on emission uniformity and clogging of on-line emitters. *Misr J. Ag. Eng.*, 34(1).



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- **Mostafa H.** and N. Fujimoto. 2015. Monitoring and evaluation of irrigation management projects in Egypt. *Japan Agricultural Research Quarterly (JARQ)*. Vol. 49(2):111-118. <https://doi.org/10.6090/jarq.49.111>
 - **Mostafa H.** and H.H Thörmann. 2015. Site-specific pivot sprinkler assessed for saving water in agriculture. *Misr J. Ag. Eng.*, 32(2).
 - Koide J., N. Fujimoto, N. Oka and **H. Mostafa**. 2015. Rice-fish Integration in Sub-Saharan Africa: The Challenges for Participatory Water Management. *Japan Agricultural Research Quarterly (JARQ)*. Vol. 49(1):29-36. <https://doi.org/10.6090/jarq.49.29>
 - **Mostafa H.** and N. Fujimoto. 2014. Water saving scenarios for effective irrigation management in Egyptian rice cultivation. *Ecological Engineering*. Vol. 70, Pp: 11-15. <https://doi.org/10.1016/j.ecoleng.2014.04.005>
 - **Mostafa H.** 2014. Effective moisture conservation method for heavy soil under drip irrigation. *Agric. Eng. Int.: CIGR Journal*, 16(2): 1-9.
 - **Mostafa H.** and H. Abdelrahman. 2014. Effect of some environmental and agricultural factors on biodegradable-drip irrigation tubes. *International Journal of Agricultural Science and Research (IJASR)*. Vol. 4 (2):125-136.
 - **Mostafa H.** 2014. Hydraulic analysis for biodegradable drip irrigation laterals. *International Journal of Agricultural Science and Research (IJASR)*. Vol. 4 (2):115-124.
 - **Mostafa H.**, Fujimoto, N., J. Koide and N. Oka. 2013. Sustainable Management-Fee Collection Mechanism for Irrigation and Drainage facilities in Islamic law. *Scientific Papers Series Management, Economic Engineering in Agriculture and Rural Development*, Vol.13 (3): 151-158.
 - Fujimoto, N., J. Koide, N. Oka, **H. Mostafa**, S. Sakata, and M. B. Wakeyo. 2013. Relationship between agricultural land system and water use when applying participatory irrigation management. 1st World Irrigation Forum, organized by International Commission on Irrigation and Drainage (ICID), 29th Sep. to 1st Oct., Mardin, Turkey.
 - **Mostafa, H.** and A. Derbala 2013. Performance of supplementary irrigation systems for corn silage in the sub-humid areas. *Agric. Eng. Int.: CIGR Journal*, 15(4): 9-15.
 - **Mostafa, H.** and H-H. Thörmann. 2013. On-farm evaluation of low-pressure drip irrigation system for Smallholder. *Soil & Water Res.*, Vol. 8 (2): 87–95. <https://doi.org/10.17221/29/2012-SWR>
 - Adel H. Bahnasawy and **Mostafa, H.** 2011. Some engineering properties of different feed pellets. *Misr J. Ag. Eng.*, 28(4)



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- **Mostafa, H.** and H. Sourell. 2011. Characteristics of some biochemical materials used for agricultural foil mulch. *J. Agric. Res.*, Vol. 49(4): 539-550.
 - **Mostafa, H.**, H. Sourell, and F.J Bockisch. 2010. Mechanical properties of some bioplastics under different soil types used as biodegradable drip tubes. *Agric Eng Int: the CIGR Journal*, 12 (1): 12-21.
 - **Mostafa, H.** 2009. Irrigation and bioplastic. (Presentation) world soil and water show – AGRITECHNICA – the international meeting point for the agricultural machinery, 8-14 Nov. Hannover, Germany.
 - **Mostafa, H** and H. Sourell. 2009. Equilibrium moisture content of some bioplastic materials for agricultural use (Drip tubes). *Agric. Eng. Int.: CIGR Journal*, Vol. XI.
 - **Mostafa, H** and Adel H. Bahnasawy. 2009. Development of affordable machine for sizing Egyptian onion. *Agric. Eng. Int.: CIGR Journal*, Vol. XI.
 - Bahnasawy A. H.; Z. A. El-Haddad; M. Y. El-Ansary and **H. Sorour Mostafa**. 2004. Physical and mechanical properties of some Egyptian onion cultivars. *J. of Food Engineering* Vol. 62(3), Pages 255-261

PUBLISHED THESES:

- **Mostafa, H.** 2010. Studies on Bioplastic for Developing and Evaluating of Drip Irrigation. ISBN-NR. 978-3-639-30647-7. VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, Pub. Germany.
- **Mostafa, H.** 2009. Developing an appropriate system for onion grading. ISBN-NR. 978-3-639-20266-3. VDM Verlag Dr. Müller Aktiengesellschaft & Co. KG, Pub. Germany.

WORKSHOPS & CONFERENCES:

- International Seminar and Workshop 2015. "Rice Research Collaboration: Past and Future". JIRCAS (Japan International Research center of Agricultural Sciences) & GRiSP (Global Rice Science Partnership). March 4-5, Tsukuba, Ibaraki, Japan.
- Agriculture Extreme Weather and Risk Management Possibilities Workshop. 2014. Thünen Institute for Rural Studies, 13 May, Braunschweig, Germany.
- 1st World Irrigation Forum, 2013. "Irrigation and drainage in a changing world: Challenges and opportunities for global food security". Organized by International Commission on Irrigation and Drainage (ICID), 29th Sep. to 5th Oct., Mardin, Turkey.
- TICAD Workshop, 2013. New stages of agricultural research in Africa. Japan



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- International Research Center for Agricultural Sciences. 31 May, Tokyo - Japan
- International symposium, 2013. Water and agriculture in Egypt. University of Tsukuba, 18 March, Tsukuba - Japan.
 - JIRCAS International Symposium 2012. Resilient food production systems: The Role of agricultural technology development in developing regions. Japan International Research Center for Agricultural Sciences. 28-29 Nov., Japan.
 - Regional Expert Workshop, 2012. Water losses management in water supply systems. Akdeniz University, 25-29 Sep., Antalya - Turkey.
 - Environment & Bio-Agriculture Workshop. 2012. National Research Centre, 2-3 April, Cairo – Egypt.
 - General Meeting of the Association of Field Irrigation Association (FVF), 2010. Good prospects for irrigation. 2nd Feb., Uelzen - Germany.
 - Water Gardening Workshop. 2009. Braunschweig - Germany
 - General Meeting of the Association of Field Irrigation Association (FVF), 2008. Agriculture and water framework directive, current status and future prospects, 5th Feb., Uelzen - Germany.
 - 6th International conference, 2007. “Materials made of renewable resources”. Erfurt - Germany.
 - Leadership Training Project in new technology for projection and production of material study – “Program I, II, III”, 11-27 Feb., Benha University, Benha - Egypt.