

Curriculum vitae

Name Mohamed Said Desouky Abu-Hashim
Date of birth 10.06.1974
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Dr. Mohamed Abuhashim

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- 2016 - now Assistant Prof. Soil and Water Management, Zagazig University.
- 2016 - now Vice-Director of projects management center, Zagazig University.
- 2015 - now Contact person and the Associate partner of EXCEED - SWINDON – Middle East North Africa program "**International Network on Sustainable Water Management in Developing Countries**"
- 2013 - 2016 Manger of Technology Transfer Office, Zagazig University, Egypt.
- 2012- 2014 Lecturer of irrigation and hydraulic, High Technology Institute, Civil Engineering Department, 10 of Ramadan City, Egypt.
- 2011 - 2016 Lecturer of water resource management, Faculty of Agriculture, Zagazig University.
- 2011 Doctor rer. nat. Geoecology Institute, Faculty of Architecture, Civil Engineering, and Environmental Science, TU-Braunschweig, Germany.**
- 2007 – 2010 Ph.D student at Julius Kuehn- Institute (JKI), Germany
Main subject: Geoecology,
Subsidiary subjects: GIS, Water resource management.
- 2006 - 2007 Enrolment as Ph.D student in Institute of Water and Soil Science of the Federal Agricultural Research Centre, Germany (FAL)
- 2002 - 2006 Assistant lecturer, Soil and Water Science Dept., Faculty of Agriculture, EL-Zagazig University.

1996 - 2002 Lab instructor, Soil and Water Science Dept., Faculty of Agriculture, EL-Zagazig University, Egypt.

Publications:

Authored Book

Abuhashim M, (2011). Impact of land use and land management on the water infiltration capacity of soils on a catchment scale. JKI, Germany. ISBN: 978-3-930037-74-2

Published papers

1. **Abuhashim M.**, Lilienthal H., Schnug E. 2016. Preventive Flood Protection: Land use impact on the water harvest - Using a modified physical model at a catchment scale. *Journal of Hydrology Research*" In revision".
2. **Abu-hashim, M.S.D.**, and Shaban, K.A. 2016. Deficit irrigation management as strategy to adapt water scarcity – Potential application on Mediterranean saline soils. *Egypt. J. Soil Sci.*" *In Press*" *Vol. 56(14)*.
3. **Abu-hashim, M.**, Mohamed, E., and Belal, A. 2016. Effect of land-use changes and site variables on surface soil organic carbon pool at Mediterranean Region. *Journal of African Earth Sciences*. 114, 78-84.
4. **Abu-hashim, M.S.D.**, and Salama, A. 2016. Simple method to measure key parameters of soil-root structure using medical X-ray tomography scanning technique. *Egypt. J. Soil Sci.* "accepted 09 .2. 2016"
5. **Abu-hashim, M.**, Mohamed, E., and Belal, A. 2015. Identification of Potential Soil Water Retention Using Hydric Numerical Model at Arid Regions by Land-use Changes. *International Soil and Water Conservation Research*. 3, 305-315.
6. **Abu-hashim, M.S.D.**, Salama, A., and Garbout, A. 2015. Characterization of soil – root interactions using medical X-ray computed tomography technique. *International Journal of Agricultural Science and Research*. 5(5), 159-170.
7. Belal, A.A., Mohamed, E.S., and **Abu-hashim M.S.D.** 2015. Land Evaluation Based on GIS-Spatial Multi-Criteria Evaluation (SMCE) for Agricultural Development in Dry Wadi, Eastern Desert, Egypt. *Int. J. Soil Sci.*, 10(3), 100-116.

8. Sallam, A., Shaban, K. A., and **Abuhashim, M.** 2014. Influence of Water deficit on seed yield and seed quality of Faba bean under saline soil conditions at North Sinai, Egypt. Egypt. J. Soil Sci.
9. **Abuhashim M,** and Abdel-Fattah M. K. (2012). Impact of Gypsum Radius on Soil Physical Properties in Saline-Sodic Soils in Sinai, Egypt. Journal of Soil and Tillage Research. "In revision"
10. **Abuhashim M,** Lilienthal H, Schnug E (2012). Land use impact on the water harvest - Using a modified physical model at a catchment scale. In: 1st Minia International Conference for Agriculture and Irrigation in the Nile Basin. 26-29 March, Minia, Egypt.
11. **Abuhashim M,** Lilienthal H, Schnug E (2010). Evaluation the impact of different land-use and land management on surface runoff using the modified curve number approach. In: 1st International Conference and Exploratory Workshop on Soil Architecture and Physico-Chemical Functions. Aarhus University, Nov. 30 – Dec. 2. Aarhus, Denmark 139-142.
12. **Abuhashim M,** Lilienthal H, Schnug E (2010). Silent sealing- Impact of different land-use and land management on the infiltration characteristics using the modified curve number approach. Oral presentation In: International workshop “ Better Soils for Better Life”. School of Engineering and Science, Jacobs University. 6 - 10 Dec. Bremen, Germany.
13. **Abuhashim M,** Lilienthal H, Schnug E (2009). Simulation the impact of different agriculture land management on runoff using the Curve Number model. In: Proceeding of the International conference in Water, Wastewater, and the Environment ”Urgent Issues for Sustainability”. TU Braunschweig, October 25th to November 3rd. Braunschweig, Germany.
14. Lilienthal H, **Abuhashim M,** Schnug E (2009). Preventative Flood protection - Adaption of land management to improve soil infiltration. In: Proceeding of the International conference in Dimensions of ecology from global change to molecular ecology: September, 14th to 18th 2009. Bayreuth, Germany.
15. **Abuhashim M,** Lilienthal H, Stoven K, Schnug E (2009). Characteristics of soil infiltration capacity under different agricultural management. Mitt.JKI 419, 91-96.

Projects:

2014 – now : Principal Investigator of Zagazig University for **TEMPUS** Project entitled: Establish a new joint master degree in biotechnology applied to agri-science, environment and pharmacology. **543865-TEMPUS-1-2013-1-EG-TEMPUS-JPCR.**

2015 – now: Member at **TEMPUS** Project entitled: ILHAM-EC (Interuniversity Learning in Higher education on Advanced Land Management- Egyptian Country) project-**215-3284/001-001**
Project reference number – 561827-EPP-1-2015-1-IT-EPPKA2-CBHE-JP

2012 - 2015: Member at **TEMPUS** Project entitled: GIEP – Green Innovation and Entrepreneurship Program 530611-TEMPUS-1-2012-1-IT-TEMPUS-JPCR

2012-2014: Director of **the National e-Learning Project**. The project is titled Product and develops soil and water science courses in e-learning program. The Project is funded by the Ministry of Higher Education, Egypt.

2012–2015: Associate director of the Information and Communication Technology program, Faculty of Agriculture, Zagazig University, Egypt.

2012–2013: Member at **EMPOWER** Tunisia – **Emerging pollutants in water and waste water in Tunisia**. Financially supported through the German Academic Exchange Service DAAD with a grant of German Foreign Ministry in the period 2012 – 2013.

2011-2013: Member at **FP7** Collaborative Project. The project title is "**Climate Induced Changes on the Hydrology of Mediterranean Basins "CLIMB" – Reducing Uncertainty and Quantifying Risk through an Integrated Monitoring and Modeling System**". Funded by the European Union.

2011-2013: Principal investigator of **CIM project** (Centrum für internationale Migration und Entwicklung). The project title is "**Water resource management and soil fertility under different land-use and land-management scenarios**". From April 2011 to April 2013. Sponsored by Deutschen Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Germany.

2008–2009: Vergleichende Untersuchungen der Infiltrationseigenschaften von konventionell und ökologisch bewirtschafteten Böden. Eine Fallstudie aus dem Main-Tauber Kreis, Baden-Württemberg, sponsored by Federal Agency for Nature Conservation Germany, BFN.

International Cooperation Protocols:

Coordinator of the International protocol between the Higher Institute of Agronomic Sciences of Chatt-Meriem, Institution of Agricultural Research and Higher Education University of Sousse , **Tunisia** and the Faculty of Agriculture, Zagazig University.

Coordinator of the International protocol between **Agronomic and Veterinary Hassan II (MOROCCO)** and the Faculty of Agriculture, Zagazig University (In progress).

Activities:

Abuhashim M (2012) *“Current status of emerging pollutants in water and wastewater and impacts on agriculture in Egypt”*. the Scientific Workshop “EMPOWER Tunisia – Setting the Bridges” September 10–16, 2012 in Hammamet/Tunisia

Abuhashim M, Lilienthal H, Schnug E (2012). Preventive Flood Protection: Land use impact on the water harvest - Using a modified physical model at a catchment scale. Oral presentation In: XXVII Nordic Hydrological Conference “Catchment restoration and water protection”. University of Oulu, 13th to 15th of August, Finland.

Abuhashim M, and Lilienthal H (2011). Identification and model based assessment of the direct surface runoff caused by land-use and land management changes on a watershed scale. International workshop “Toxic and hazardous substances in water and wastewater”. Yildiz Technical University June 28 – July 2. Istanbul, Turkey.

Abuhashim M, Lilienthal H, Stoven K, Schnug E (2008). Characteristics of soil infiltration capacity under different agricultural management. Oral presentation In: Nachwuchswissenschaftler-Forum. 24-26 Nov. Quedlinburg, Germany.

Training courses and experiences:

- ❖ Intensive training course in Research Proposal Development and Writing. Funded by the USAID and was held in the Middle East Desalinization Research Center in **Muscat, Oman** 7 -10 October, 2012.
- ❖ Diploma in soil architecture and physico-chemical functions. Exploratory workshop at Faculty of Agriculture, Aarhus University, Nov. 30 – Dec. 2. 2010. **Denmark**.
- ❖ Training course in Geographical Information Systems Package including Arc View / GIS software for creating spatial relations among objects and extracting new thematic maps. Julius Kuehn-Institute, **Braunschweig, Germany**.
- ❖ Experience in dealing with different data sets such as Ad-hoc, ATKIS, etc. and implementing them in models and the GIS.

- ❖ Training course in numerical modelling “HYDRUS-ID software package for simulating the Water movement and Multiple Solutes in Variably-Saturated Media. TU-Braunschweig, Germany.
- ❖ Training Course in Geographical Information Systems from Geographic dept., Faculty of Arts, EL-Zagazig University. Egypt.
- ❖ Training Course in Analytical models (SPSS programs) from Faculty of Science, EL-Zagazig University, Egypt.

References:

1. Prof. Dr. Ewald Schnug

Julius Kuehn- Institute for cultivated plants (JKI), Germany

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2. Prof. Dr. Holger Lilienthal

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3. Prof. Dr. Bülent Topkaya

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