

Curriculum Vitae of

Ahmed Yehia Mady

1-PERSONAL INFORMATION

<i>First name</i>	Ahmed	
<i>Family Name</i>	Mady	
<i>Date and place of birth</i>	10 th of January 1987, Cairo, Egypt	
<i>Nationality</i>	Egyptian	
<i>Marital status</i>	Male, married	
<i>Mailing address (Home)</i>	20 Ahmed Tayseer street, Ard El Golf, Nasr City, 11754, Cairo, Egypt.	
<i>E-mail</i>	ahmed_mady@agr.asu.edu.eg	
<i>Cell phone</i>	+201118341302 & +201559881419	
<i>Mailing Address (Work)</i>	Soil Science Department, Agric. Fac. ,Ain Shams Univ., Hadayek Shoubra 11241, Cairo, Egypt.	

2-ACADEMIC DEGREES

<i>Degree</i>	<i>Dates</i>	<i>Universities</i>
B.SC. (Soil Science)	2008	Ain Shams University, Faculty of Agriculture, Soil science Department, Egypt.
M.Sc. (Soil Science)	2013	Ain Shams University, Faculty of Agriculture, Soil science Department, Egypt.
PhD. (Agrophysics)	2018	Lomonosov Moscow State University, Faculty of Soil Science, Soil Physics and Reclamation Department, Russia (Ranking 86 according to QS).

3-CAREER - EMPLOYMENT RECORD

<i>Date (Month/Year)</i>	<i>Description</i>
2019-Now	Assistant Professor (lecturer) at Soil science Department, Faculty of Agriculture, Ain Shams University, Egypt.
2013-2019	Researcher and PhD student at Soil Physics and Reclamation Department, Faculty of Soil science, Lomonosov Moscow State University, Russia. Assistant lecturer at Soil science Department, Faculty of Agriculture, Ain Shams University, Egypt.
2010-2013	Demonstrator at Soil Science Department, Faculty of Agriculture, Ain Shams University.
2009-2010	Researcher at Academy of Scientific Research &Technology.

4-Undergraduate Courses Taught

- General physics (3 credits)
- Soil Science (3 credits)
- Soil Physics (3 credits)
- Soil Reclamation (3 credits)
- Soil Relation with Water and Plant (3 credits)
- Water Requirements (3 credits)
- Irrigation and Drainage (3 credits)
- Agricultural meteorology (3 credits)

5- EDUCATION, WORK SHOP AND INTERNSHIPS

<i>Date (Month/Year)</i>	<i>Description</i>
1/5/2019 to 31/1/2020	Postdoctoral training (visiting researcher) at soil science institute named after V.V. Dokuchaev, Moscow, Russia.
1/10/2015-11/12/2018	Researcher and PhD student at Soil Physics and Reclamation Department, Faculty of Soil science, Lomonosov Moscow State University, Russia.
25/11/2014-30/6/2015	Study Russian language in Moscow state Pedagogical University (B2)
15/1/2017-28/2/2017	Internship in “Impact of Soil Water Retention Curve Hysteresis on water transfer in vadzolz zone using HYDRUS1-D” Program-R studio program. Institute of Agro physics, Polish Academic of Science, Poland.
7/9/2014-25/10/2014	Internship in” Computation Dew” institute of soil and water conservation in North west university A&F University, China.
10/2010-1/4/2013	Demonstrator and Master student at Soil Science Department, Faculty of Agriculture, Ain Shams University.
from Apr 3 rd ,2012 to Apr 26 th	“Workshop on Soil &Water Conservation and Dry land Farming For Developing Countries” Sponsored by the Ministry of Commerce and Organized by International Exchange Center of Yangling Demonstration Zone, China.
7/2009-2/2010	"Scientific next generation", a Human Recourse training course provided by a grant from the Academy of Scientific Research & Technology in communication skills, Effective presentation, Research Ethics, International publishing of

research, How to compete for a research fund, Getting job, Self Esteem ,Motivation ,Time management ,Meeting management .minute taker ,advanced and business writing, Anger management and conflict and Stress management.

2/2009-7/2009

"Scientific next generation", a specific training course provided by a grant from the Academy of Scientific Research & Technology in waste management, Fertilization management, Tissue culture, Bio informatics, Water analyses, SPSS programming and EntNot program.

6- INTERNATIONAL CONFERENCES

Date (Month/Year)

Description

25-28/7/2021, Egypt.

“Women and Creativity Sustainable Development Egypt Vision 2030” Faculty of Women for Arts, Education, and Science, Ain Shams University, Cairo, Egypt.

27-31/5/2019, Russia.

“Key concepts of soil physics: development, current applications and future prospects ". Lomonosov Moscow State University, Faculty of Soil Science, Moscow, Russia.

5-6/4/ 2012, China.

“Shaanxi Developing country Agriculture Investment Cooperation Conference” which is organized by the Department of Commerce of Shaanxi Province and the Administrative Committee of Yangling Demonstration Zone.

11-14/10/2010, Egypt.

“Organic Agriculture –Limitations and Future Organized by Egyptian Society for Organic Agriculture and Environmental Protection (ESOAEP)”. Ain Shams University Guest House, Cairo, Egypt.

7- LANGUAGES

Arabic **Mother tongue**

Language skills (mark on a scale from 1 = basic to 5 = fluent)

	Reading	Writing	Listening	Speaking
English	4	4	4	4
Russian	3	3	3	4
French	2	2	2	2

<i>TOEFLE</i>	<i>PLACE</i>	<i>SCORE</i>
LOCAL (ITP)	Language & Translation Unit (LTU) in Ain Shams University, Cairo	550

25/11/2014-30/6/2015

Study Russian language in Moscow state Pedagogical University (B2).

8- MAIN SPECIALIZATION, EXPERIENCE AND RESEARCH INTERESTING

- Soil Science,
- Soil Physics and Reclamation,
- Agrophysics,
- Developing Pedotransfer functions (PTFs) using Statistic regression,
- Mathematical modeling in Soil Science and Soil Physics,
- Modeling soil moisture and temperature dynamics,
- Modeling irrigation schedule,
- Agricultural meteorology.
- Modeling soil Hydro-Physics Properties,
- Modeling Thermo-Physics Properties,
- Application of X-Ray Computed Tomography on soil physics based on porous media structure,
- Analysis of big data, and Machine learning.

9- TRAINING COURSES

<i>Date (Month/Year)</i>	<i>Description</i>
2-3/03/2022, Egypt.	“ Ceremonies and Protocols”, Ministry of Foreign Affairs, Institute for Diplomatic Studies, Cairo, Egypt.
01-30/3/2013, Egypt.	“Effective presentation skills”. Faculty of Agriculture, Ain Shams University, Cairo, Egypt.
09-18/6/2009, Egypt.	“Plant cell Culture Technology”. Training & Capabilities Development Center, National Research Centre, Egypt.
21/6-02/7/2009, Egypt.	“Bioinformatics and Genetic Improvement of Plants & Animals”. Agricultural Genetic Engineering Research Institute (AGERI), Egypt.
2/7/2009-31/1/ 2010, Egypt.	“Training program in science and technology”. Academy of Science Research & Technology. Egypt.

10- Trainer (workshops-courses-programs)

- Workshop “Mathematical models: Their applications and statistical analysis” that held at the faculty of Agriculture, Ain Shams university on March 30-31th,2022

11- Informatics knowledge (Software and programs)

- HYDRUS 1-D, RET-C, R studio, MATLAB, Surfer, SPSS, Statistics and ARC GIS

12- Books

- **Mady, A.Y.**, 2021, Soil Physics, Dar AL Fajr (In Arabic language) ISBN:978-977-358-448-1

13- PUBLICATIONS IN INTERNATIONAL JOURNALS

- 1- Mady, A.Y.**, “Impact of a long-term conventional tillage and no-tillage on soil hydro-

- physical properties and its pore size distribution" *Soil & Environment*. 41(1): 46-54, 2022. (SCImago-SJR-Q3).
- 2- **Mady, A.Y.**, Shein, E.V., "Optimizing Pedotransfer functions for predicting soil moisture of wetting curve based on an effective degree of saturation" *Eurasian Soil Science* ,2021, 54(3) (JCR-ISI-ESCI-SCImago-Q2).
 - 3- **Mady, A.Y.**, Shein, E.V., Abrosimov, K.N., Skvortsova, E.B., "X-ray computed tomography: validation of the effect of pore size and its connectivity on saturated hydraulic conductivity" *Soil & Environment*, 2021, 40(1):1-8(SCImago-SJR-Q3).
 - 4- **Mady, A.Y.**, Shein E.V., Skvortsova, E.B., Abrosimov, K.N. " Evaluate the impact of porous media structure on soil thermal parameters using X-ray computed tomography", *Eurasian Soil Science*.2020, 53(12) (JCR-ISI-ESCI-SCImago-Q2).
 - 5- **Mady, A.Y.**, Shein, E.V, "Assessment of pore space changes during drying and wetting cycles in hysteresis of soil water retention curve in Russia using X-ray computed tomography", *Geoderma Regional*, 2020, 21 (JCR-ISI- ESCI-SCImago-Q2).
 - 6- **Ahmed Yehia Mady**, Evgeny Shein. Optimizing particle size distribution measured by laser diffraction technique for estimating soil hydraulic properties. *Soil & Environment*, 2019, 38(2):214-221(SCImago-SJR-Q3).
 - 7- **Ahmed Yehia Mady**, Evgeny Shein. Modelling and validation hysteresis in soil water retention curve using tomography of pore structure. *Int. J. Water*, 2018 Vol. 12, No. 4 (SCImago-SJR,Q3).
 - 8- **Ahmed Yehia Mady**, Evgeny Shein. Estimating soil thermal diffusivity using Pedotransfer functions with nonlinear regression. *The Open Agriculture Journal* 2018, Vol.12 (SCImago-SJR,Q4).
 - 9- **Ahmed Yehia Mady**, Evgeny Shein. Comparison Between Particle Size Distribution as a Predictor of Pedotransfer Functions using Laser Diffraction and Sedimentation Methods. *International Journal of Soil Science* 2017, 12(2): 65-71.(SCImago-SJR,Q4).
 - 10- **Mady, A.Y.**, Shein, E.V. Support Vector Machine and Nonlinear Regression Methods for Estimating Saturated Hydraulic Conductivity. *Moscow University Soil Science Bulletin*, 2018, 73 (3):129–133.(RSCI-Springer).
 - 11- Shein, E.V., **Mady AY**. Hysteresis of the water retention curve: wetting branch simulation based on the drying curve, *Moscow University Soil Science Bulletin*, 2018

Vol. 73, No. 3, pp.124–128, DOI: 10.3103/S0147687418030080. (RSCI-Springer).

- 12-** Shein, E.V., **Mady, A. Y.** Soil Thermal Parameters Assessment by Direct Method and Mathematical Models. Journal of Soil Science and Environmental Management. 2016, 7 (10):166-172.
- 13-** **Mady, A .Y.** and Shein E.V. Modeling Soil Thermal Diffusivity as a Function of Soil Moisture, Bulletin of the Orenburg State University, 2016, (12), 200:56-60.
- 14-** Shein, E.V., **Mady, A. Y.**, and El Hassna A. Mohamed. Soil Saturated Hydraulic Conductivity Assessment by Direct and Pedotransfer Functions Methods. Biogeosystem Technique Journal, 2015, Vol. 6, (4): 396-400.
- 15-** Shein, E.V., **Mady, A. Y.**, and Il'in, L.I. Validation of HYDRUS-1D for Predicting of Soil Moisture Content with Hysteresis Effect. Biogeosystem Technique, 2019, 6(1):59-64 DOI: 10.13187/bgt.2019.1.59.

14- PUBLICATIONS IN CONFERENCES

- 16-** **Mady, A.Y.**, Shein, E.V. 2019. Development of pedotransfer functions for estimation soil hydro and thermal physical properties. Key concepts of soil physics: development, current applications and future prospects; 195-199.
- 17-** **Mady, A.Y.**, Shein, E.V. 2017. Evaluate Impact of Soil Physical Properties on Soil Thermal Parameters. Agrophysics Trends: from actual challenges in arable farming and crop growing towards advanced technologies; 667-671.
- 18-** Shein, E.; Milanovskiy, E.; **Mady, A.** 2017. Granulometric Composition as a predictor of pedotransfer functions: use of laser diffraction and sedimentometric methods. Wageningen Soil Conference Soil Science a changing world; 205.

15- AWARDS AND HONORS

- Award in International Publishing (Batch 28- January 2021) from Ain Shams University, Cairo, Egypt
- Award in International Publishing (February 2021) from Ain Shams University, Cairo, Egypt

- Award in International Publishing (Batch 29- July 2021) from Ain Shams University, Cairo, Egypt
- Certificate of Honor in International Publishing from the Cultural Center of Egypt, Moscow, Russia 2019

16 -REVIEWER IN JOURNALS

1. Geoderma.
2. Journal of Hydrology.
3. International Soil and Water Conservation Research.
4. Applied Artificial Intelligence.
5. Bulletin of Engineering Geology and the Environment.
6. Environmental Monitoring and Assessment.
7. Pedosphere

17- REFERENCE

Shein Evgeny

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page: <https://zhxy.nwsuaf.edu.cn/szdw/kjdw/49152f67ca9741ef887d8a6f7eaab3f0.htm>

ResearchGate: https://www.researchgate.net/profile/Hailong_He3

Google Scholar: <https://scholar.google.com/citations?user=E17a1jAAAAAJ&hl=en&oi=sra>

