

Curriculum Vitae:

AHMED EHAB TALAT ABDELMOUNIM

Personal info

Current position: PhD Candidate, Institute Soil and Water Conservation, Northwest A&F University, Yangling, Shaanxi, China.

Date of birth: 23/5/1992

Nationality: Egyptian

Address: 22bld., South Campus, Northwest A&F University, 3 Taicheng Road, Yangling, Shaanxi 712100, China

Phone number: +8613002979016

Email address: Ahmed_ehab2257@yahoo.com , Ahmed_ehab2257@nwafu.edu.cn , Hamada_ehab2003@agr.asu.edu.eg

Education

➤ **Bachelor** (9/2010 - 6/2014)

B.Sc., Agricultural Sciences, Program plant production, Department of soil Sciences, Faculty of Agriculture, Ain Shams University, Cairo, Egypt Grade: Very Good with honor degree (four years)

Graduation project title: Application of hydroponics in modern agriculture Project grade: Excellent

➤ **Master** (2/2016 - 1/2021)

Research title “Estimation of soil hydraulic properties using pedotransfer functions for irrigation scheduling “

➤ **PhD** (3/2023 – till now)

Research title “Effect of Soil Pores on Soil Hydrodynamic Properties in the Loess Plateau “

Work experience

4/2021 – 3/2023, **Assistant Lecturer**, Department of Soil Sciences, Faculty of Agriculture, Ain Shams University)

2/2015 - 4/2021, **Teaching Assistant**, Department of Soil Sciences, Faculty of Agriculture, Ain Shams University)

7/2014 - 2/2015, **Research assistant & agricultural engineering**, 6th October Agricultural Investment Company, Egypt.

Language skills

- 1- Arabic: Native language
- 2- English: Very Good
- 3- Chinese: Good
- 4- French: Good

Publications

- 1- Chen Y, He Y, **Talat AE**, Wang J, Cai Z. 2025. Analysis and Prediction of Soil Erosion Under Different Land Use Change Scenarios in Kuye River Basin Based on PLUS-CSLE Model. *Environmental Science*, 46(8), 4971-4981.
- 2- **Talat, A. E.**, Wang, J., & El-Sorogy, A. S. (2025). Impact of Soil Compaction on Pore Characteristics and Hydraulic Properties by Using X-Ray CT and Soil Water Retention Curve in China's Loess Plateau. *Water*, 17(8), 1144.
- 3- **Talat, A. E.**, Chen, Y., He, Y., Cai, Z., & Wang, J. (2025). Quantification of the Loess Plateau's soil hydrodynamics in relation to bulk density. *Soil Science Society of America Journal*, 89(2), e70036.
- 4- **Talat, A. E.**, Feng, R., Liu, G., Xie, J., Cai, Z., & Wang, J. (2025). Simulated Experimental Effect of Bulk Density on Infiltration Rate of China's Loess Plateau. *Egyptian Journal of Soil Science*, 65(1).
- 5- He, Y., Chen, Y., **Talat, A. E.**, Wang, J., Zhao, G., & Jiang, T. (2024). Spatio-temporal Pattern and Trend Prediction of Soil Erosion in Kuye River Basin. *Journal of Soil and Water Conservation*, 38(5), 10-19.
- 6- **Talat, A. E.**, Galal, M. E., Yeser, A., & Saad El-Dein, A. A. (2020). Quantifying the hydraulic properties of some Egyptian soils using RETC code. *Arab Universities Journal of Agricultural Sciences*, 28(2), 685-694.

7- There are Three papers under review.

Computer skills

- Microsoft Office packages and graphics editing software (e.g., Adobe, Photoshop, etc)
- Statistical Analysis Software (e.g., SPSS, SAS, Costat, Origin, etc.)
- Software to predict soil properties and water movement (e.g., Hydrus, Rosetta, RETC code, Cropwat, Avizo, etc.)
- Basics of programming languages (e.g., Python, R, MATLAB)

Academic skills and experience

- Academic practical teaching (Soil physics; Principles of soil physics, and meteorology; The principles of soil and water; Land reclamation and maintenance; The relationship between soil, water, and plant; Irrigation and drainage)
- Soil, water, and plant analysis (central lab agriculture faculty -Ain Shams University)
- Writing soil suitability reports

Analytical skills

Full command of handling, quality assurance, and results interpretation of the following analyses and instruments:

Chemical analyses: cations, anions, organic matter, calcium carbonate, etc. Physical analysis: soil moisture, Pf curve, soil resistance of penetration, saturation percentage, infiltration rate, hydraulic conductivity, bulk density, particle size distribution, and soil pore characteristics, etc.

Among the equipment: X-ray Computed Tomography, Spectrophotometer, Flame Photometer, Atomic Absorption Spectrometer, ICP, Pressure Cooker and Pressure Membrane, Hydraulic Conductivity, Penetration, Sieving, Kaolin Box, Single and Double Ring, Mini Disc Infiltrometer, etc.

Conferences, Training, and Workshops

- International institute of online education about AI in Education: Ajourney Through the Future classroom (Egypt) on the IIOE platform from UNESCO (Oct 4, 2025).

- The 6th International Symposium on the Best and Road Bio-health Agriculture and the Forum on Construction of Bio-health Agriculture Overseas Sci-tech Demonstration Park of China -SCO countries, Northwest A&F University (November 13-16, 2024).
- Workshop under the title "How To" Scientific Research Series", at Huazhong Agricultural University, online (November 03,10,17, 2024)
- The 2nd International Symposium on Soil Microbiome and Soil Health, at Northwest A&F University (Oct 29-Nov 2, 2024)
- The 18th Yangling International Agri-science Forum, Northwest A&F University (October 24, 2024)
- The First International Academic Symposium on Future Agriculture, at Northwest A&F University (August 13-14, 2024)
- Yangling Workshop of Global Soil Erosion Map (GSErmap), at Northwest A&F University (April 22-25, 2024)
- Silk Road International Symposium on Plateau Ecological Environment Protection and High-Quality Development of the Yellow River Basin, at Northwest A&F University (12/2023)
- The 5th International Symposium on the Best and Road Bio-health Agriculture and the Forum on Construction of Bio-health Agriculture Overseas Sci-tech Demonstration Park of China -SCO countries, Northwest A&F University (11/2023)
- The 17th Yangling International Agri-science Forum, Northwest A&F University (09/2023)
- Global Symposium on Salt-affected Soils-GSAS21, Food and Agriculture Organization of the United Nations, held virtually (10/2021)
- POWERAPPS, Training and Development Center, Ain Shams University (06/2021)
- Search and Research, Training and Development Center, Ain Shams University (11/2020)
- Scholarly publishing in Indexed Journals, Training and Development Center, Ain Shams University (10/2020)
- Scientific writing, training and development center, Ain Shams University (10/2020)
- Egyptian Knowledge Bank, at faculty of commerce Ain Shams University (11/2019)
- Elsevier Research and Health Solutions – EKP Tour at Cairo University (11/2019)

- Teaching and learning outcomes, Ain shams university assurance and accreditation center (7/2019)
- Ecological agriculture towards a sustainable agriculture environment, National research center (4/2019)
- The 15th international crop science conference at Faculty of Agriculture, Ain shams university (10/2018)
- Blue print, Ain shams university assurance and accreditation center (5/2017)
- Introduction and analysis of questionnaire data, Ain shams university faculty of Agriculture QAU (3/2017)