

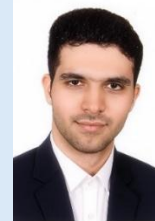
Ehsan Ghezelbash

Assistant Professor at the Faculty of Agriculture, University of Tarbiat Modares

ghezelbash@modares.ac.ir,
ehsanghezelbash1194@gmail.com
(+98) 91274011494

Academic Background

- B.Sc. in Soil Science, University of Zanjan, Iran *October 2010 – July 2014*
- M.Sc. in Soil Physics and Conservation, University of Tehran, Iran *September 2014 – September 2016*
- Ph.D. in Soil Resource Management *Specialization: Soil Physics & Soil-Water-Plant Relationships, University of Tehran, Iran* *September 2016 – May 2022*



Research background

- ***Investigating soil–root interactions and mucilage secretion under varying soil mechanical resistance in maize cultivars, 2025***, Ehsan Ghezelbash, Mohammad Hossein Mohammadi, Mahdi Shorafa, Plant and Soil. <https://doi.org/10.1007/s11104-025-07263-3>
- ***Estimation of water retention at low matric suctions using the micromorphological characteristics of soil pores, 2023***, Aida Bakhshi, Ahmad Heidari, Mohammad Hossein Mohammadi, Ehsan Ghezelbash, Eurasian Soil Science. <https://doi.org/10.1134/S1064229323600549>
- ***Investigation of soil mechanical resistance threshold values for two wheat cultivars in a loamy sand soil, 2022***, Ehsan Ghezelbash, Mohammad Hossein Mohammadi, Mahdi Shorafa, Journal of Soil Science and Plant Nutrition. <https://doi.org/10.1007/s42729-022-00864-2>
- ***Evaluation of Assouline–or adjusted model to express soil drainage curve, 2020***, Zahra Asadi, Mohammad Hossein Mohammadi, Mahdi Shorafa, Mohsen Farhbakhsh, Ehsan Ghezelbash, Eurasian Soil Science. <https://doi.org/10.1134/S1064229320060022>
- ***Comparison of Three Commonly Used Concepts in Explaining Soil Water Availability for Plants (CPAW, EI and Mh0) and Their Feasibility as an Indicator of Soil Management, 2020***, Ehsan Ghezelbash, Mohammad Hossein Mohammadi, Iranian Journal of Soil and Water Research. [10.22059/ijswr.2019.283647.668236](https://doi.org/10.22059/ijswr.2019.283647.668236)
- ***Investigation of Soil Mechanical Resistance under Different Levels of Compaction and Cementation Treatments and the Effect of Maize and Wheat Root Development on It in Experimental Condition, 2022***, Ehsan Ghezelbash, Mohammad Hossein Mohammadi, Mahdi Shorafa. [10.22059/ijswr.2022.335187.669152](https://doi.org/10.22059/ijswr.2022.335187.669152)
- ***Using micromorphological techniques for geometrical classification of soil aggregates affected by various treatments, 2024***, Aida Bakhshi khorramdarre, Parisa Alamdari, Ahmad Heidari, Mohammad Hosein Mohammadi, Ehsan Ghezelbash. [10.22059/ijswr.2023.367248.669599](https://doi.org/10.22059/ijswr.2023.367248.669599)

Participating in conferences

- 15th Iranian Soil Science Congress
Isfahan, Iran | Summer 2017
Poster Presentation
- 16th Iranian Soil Science Congress
Zanjan, Iran | Summer 2019
Oral Presentation

Professional Experience

- Senior Data Operations & Analytics Specialist
Agah Financial Group
November 2020 - June 2025
- Assistant Professor of Soil Science & Technology
Faculty of Agriculture, Tarbiat Modares University
June 2025 - Present
LinkedIn address:
<https://www.linkedin.com/in/ehsan-ghezelbash-846a74237>
- Official page address:
https://www.modares.ac.ir/pro/academic_staff/ghezelbash

Technical Skills

- Modeling soil physical and hydraulic properties
- Generative AI applications
- Data analysis and machine learning
- Programming and coding
- Project management

Thesis & Dissertation Titles

- Ph.D. Dissertation:**
Mechanisms of Soil Mechanical Impedance Effects on the Lower Limit of Available Water in Wheat and corn
- Ph.D. Seminar:**
Evaluation of the Upper Limit of Plant-Available Water Using the Least Limiting Water Range (LLWR) Approach
- M.Sc. Thesis:**
The Effects of High-Salinity Irrigation Water in determining Field Capacity Based on a new Concept

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Peer Review Activities (4 reviews for 2 publication)

- *Plant and Soil* (2023, 2025, 2025)
- *Soil & Tillage Research* (2025)

ORCID: <https://orcid.org/0000-0002-0386-2437>