Mahdi Farmahini Farahani (Arad)

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Undergraduate Student

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EDUCATION

Kharazmi University, Faculty of Earth Sciences Tehran, Iran
Bachelor of Science, Geology *2021 – 2025*
- Chairperson, Geological Society of Kharazmi University (June 2024 - Present)
- Vice President of Media, Geological Society of Kharazmi University (November 2023 - June 2024)

PUBLICATIONS

Journal Articles

1. **Farmahini Farahani, M.** (2024). Effects and social damage of fine dust. ***Ovan Scientific Journal***

2. **Farmahini Farahani, M.** (2024). Designing the green belt in the southwest of Zahedan. ***Ovan Scientific Journal***

3. Saravani, M. J., Kashef, S., **Farmahini Farahani, M.**, Kashefi,M., & Zohreh, M. (2023). Investigating the accuracy of hybrid models with wavelet transform in the forecast of watershed runoff. ***Journal of Water Management Modeling (JWMM)***

Conference Papers

1. Rezaei, K., & **Farmahini Farahani, M.** (2024, March). Visualization of magnetometric data with Python (case study: Segregation sedimentary units of Torud Playa). In ***The 1st Conference on Applied Geophysics in Mines***, Tehran, Iran

2. Rezaei, K., & **Farmahini Farahani, M.** (2024, February). Comparing the performance of the k-means clustering method and spectral indices in characterizing land use and land cover using remote sensing with Python (case study: Landsat 8 multi-spectral images). In ***2nd International Conference for Iranian Geography and Earth Sciences Students***, Tehran, Iran

3. **Farmahini Farahani, M.**, Rezaei, K., Karamollahi, S., & Moghadam, F. J. (2024, January). Application of PCA algorithm in remote sensing using Python programming language (case study: Landsat 9 multispectral images). In ***8th Symposium of Sedimentological Society of Iran***, Hormezgan, Iran

4. Rezaei, K., & **Farmahini Farahani, M.** (2023, September). The importance of using Python programming language in Earth science. In ***26th Conference of Geological Society of Iran***, Urmia, Iran

Books

1. Rezaei, K., **Farmahini Farahani, M.**, Karimzadehasl, E. (Trans.). (2024). *Introduction to Python in Earth science data analysis: From descriptive statistics to machine learning.* **Tasir Publication.** (Original work published by Maurizio Petrelli)

2. Karimi Pashaki, A., **Farmahini Farahani, M.**, Soleimani, J., & Karimzadegan, Y. (2023). *Environmental risk management.* **Azargan Publication**

Code Repositories

1. Farmahini Farahani, M., & Raeisi, N. (2024). KhUAdvanceGeoML [Computer software]. Retrieved from [ResearchGate URL]

2. Farmahini Farahani, M. (2023). Remote-Sensing v1.1.0 [Computer software]. Retrieved from [ResearchGate URL]

SKILLS & INTERESTS

Programming Language Python, Julia, Familiar with R

Markup Language Markdown, LaTeX

Laboratory List scientific / research lab techniques or tools [If Applicable]

Interests List activities you enjoy that may spark interview conversation