Curriculum Vitae

Mohammad Moumeni Taromsari

PERSONAL INFORMATIION

First Name: Mohammad
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Google Scholar: https://scholar.google.com/citations?user=u7I8_ugAAAAJ&hl=en

EDUCATION

Nov 2020 – Mar 2024 **University of Rome "Sapienza", Italy**
Ph.D., Department of Earth Sciences (Grade: Excellent)
Thesis: Tectonics, Lithology, and Climate Interaction in the Landscape Evolution of Talesh Mountain Range (NW Iranian plateau)

Sep 2013 – Sep 2016 **Kharazmi University, Iran**
M.Sc., Faculty of Earth Sciences (GPA: 3.89/4.00)
Thesis: Geometric-kinematic and morphotectonic analysis of the Kalmard Fault Zone, North of Ozbak-Kuh, Central Iran

Sep 2009 – July 2013 **Golestan University, Iran**
B.Sc., Faculty of Sciences, Department of Geology (GPA: 3.80/4.00)

SPECIALIZATION

- Tectonic Geomorphology
- Active Tectonics
- Structural analysis

RESEARCH INTERESTS

- Landscape evolution modelling
- Active tectonics and earthquake risk analysis
- Geochronology studies integrating with numerical models

MEMBERSHIP IN PROFESSIONAL COMMUNITIES

- European Geosciences Union
- British Society of Geomorphology
- INEF (Iran's National Elites Foundation)

PUBLICATIONS

INTERNATIONAL JOURNALS (ISI Peer-Reviewed English Articles)

- Delchiaro, M., Della Seta, M., Martino, S., **Moumeni, M.,** Nozaem, R., Marmoni, G.M. and Esposito, C., 2024. The role of long-term preparatory factors in mass rock creep deforming slopes: insights from the Zagros Mts. belt (Iran). Landslides, pp.1-21.

- **Moumeni, M.,** Delchiaro, M., Della Seta, M., Nozaem, R., Ballato, P., Leonard, J.S., Clementucci, R. and Rouhi, J., 2024. Interplay between tectonics and surface processes in the evolution of mountain ranges: Insights from landscape dynamics, uplift, and active deformation of Talesh Mountains (NW Iranian Plateau margin). Geomorphology, 448, p.109029. https://doi.org/10.1016/j.geomorph.2023.109029.

- Delchiaro, M., Della Seta, M., Martino, S., Nozaem, R. and **Moumeni, M**., 2023. Tectonic deformation and landscape evolution inducing mass rock creep driven landslides: The Loumar case-study (Zagros Fold and Thrust Belt, Iran). Tectonophysics, 846, p.229655. https://doi.org/10.1016/j.tecto.2022.229655.

- **Moumeni, M**., Nozaem, R. and Dehbozorgi, M., 2021. Quantitative assessment of the relative tectonic activity using the analytical hierarchy process in the northwestern margin of the Lut Block, Central Iran. Journal of Asian Earth Sciences, 206, p.104607. https://doi.org/10.1016/j.jseaes.2020.104607.

- **Moumeni, M**., Dehbozorgi, M., Nozaem, R. and Yassaghi, A., 2018. Active tectonics analysis of the Kalmard fault zone, Central Iran. Arabian Journal of Geosciences, 11, pp.1-25. https://doi.org/10.1007/s12517-018-3701-5.

Peer-Reviewed Journal Articles (Published in Persian)

- **Moumeni Taromsari, M**., Dehbozorgi, M., Nozaem, R., Yassaghi, A. (2018). 'Geometric-kinematic analysis of the Kalmard fault zone, north of Ozbak-Kuh, central Iran', Journal of Geoscience, 28(109), pp. 245-254. doi: 10.22071/gsj.2017.80071.1066

- **Moumeni Taromsari M**, Dehbozorgi M, Ghorbani A, Nozaem R. Relationship between aleteration zone and Kalmard fault system in the Ozbak-Kuh area, Central Iran. Kharazmi Journal of Earth Sciences. 2017; 3 (1) :113-122

- Dehbozorgi, M., **Moumeni Taromsari, M**. (2016). 'Recent tectonic activity in Qom- Zefreh fault zone, Central Iran', Quantitative Geomorphological Research, 5(2), pp. 110-129.

- **Moumeni Taromsari, M**., Dehbozorgi, M., Yassaghi, A., Nozaem, R. (2016). 'Assessment of Active tectonic of Ozbak-Kuh in the north of Tabas, Central Iran', Quantitative Geomorphological Research, 4(3), pp. 50-69.

BOOKS

- A visual learning to ENVI 5.0 (In Persian)
  Authors: Saleh Arekhi, **Mohammad Moumeni**
  Publication date: Feb 20, 2016
  Publication description: Golestan University (Iran)
  Publication description Contact: Email: unilib@gu.ac.ir

Conference Papers & PRESENTATIONS

- **Moumeni, M.,** Della Seta, M., Delchiaro, M., Ballato, P., Nozaem, R., Tikhomirov, D., Christl, M., Egli, M., 2024. Uplift history and landscape evolution along the northwest margin of the Iranian Plateau (Talesh Mountains) in the Arabian–Eurasian collision zone. EGU General Assembly Conference, Vienna, Austria, 14–19 April 2024 (No. EGU24-714). Copernicus Meetings. Retrieved from https://meetingorganizer.copernicus.org/EGU24/EGU24-714.html

- **Moumeni, M.,** 2024. Tectonics, Lithology, and Climate Interaction in the Landscape Evolution of NW Iranian Plateau. Roma chiama Roma Conference, Rome, Italy. Retrieved from https://www.dst.uniroma1.it/sites/default/files/Locandina%20e%20programma%20RcR_definitivo_1.pdf

- Delchiaro, M., Della Seta, M., Martino, S., **Moumeni, M.,** Nozaem, R., Marmoni, G.M. and Esposito, C., 2023. The Mountain Front Fault in the Lorestan region of the Zagros belt (Iran): coupling tectonic uplift and structural inheritance in a Mass Rock Creep deforming slope. EGU General Assembly Conference, Vienna, Austria, 2023 (No. EGU23-8624). Copernicus Meetings. Retrieved from https://meetingorganizer.copernicus.org/EGU23/EGU23-8624.html

- **Moumeni, M**., Delchiaro, M., Della Seta, M., and Nozaem, R. Asymmetric uplift in the NW Iranian Plateau: An insight from the dynamic divide migration of Ardebil Basin. 10th International Conference on Geomorphology, Coimbra, Portugal, 12–16 Sep 2022, ICG2022-120, https://doi.org/10.5194/icg2022-120, 2022. Retrieved from https://meetingorganizer.copernicus.org/ICG2022/ICG2022-120.html

- Anisi, A., **Moumeni Taromsari, M**. (2019). Erathquake risk analysis of cultural heritage in Zagros region. 2nd Conference on Empowering Architectural and Urban Heritage against Earthquakes. Tehran. Retrieved from https://civilica.com/doc/980001/

- **Moumeni Taromsari, M**., Dehbozorgi, M., Yassaghi, A., Nozaem, R. (2016). Analytic Hierarchy Process (AHP) in Morphometric Assessment of Ozbak-kuh Mountains. The 20th Symposium of Geological Society of Iran, Tehran University. Retrieved from https://www.sid.ir/paper/849726/fa

- **Moumeni Taromsari, M**., Dehbozorgi, M., Yassaghi, A., Nozaem, R. (2016). Analysis of recent activity of Kalmard fault in Ozbak-Kug region, Central-East Iran. 1st National Conference of Quaternary Science application in environmental processes, and 2nd National Congress of Iranian Quaternary Association (IRQUA), Isfahan University.

- **Moumeni Taromsari, M**., Dehbozorgi, M., Yassaghi, A., Nozaem, R. (2015). Morphotectonic analysis of Ozbak-kuh in the Kalmard Fault Zone, Central Iran. Earth Science Conference with a vision on Urmia Lake, Urmia. Retrieved from https://civilica.com/doc/413702/

AWARDS, HONOURS, & SCHOLARSHIPS

- PhD scholarship winner (3-years) - Academic Year 2020-2021;
  Postgraduate PhD position with fellowship for attaining the degree of "Dottore di Ricerca" (PhD) in the Doctoral School "Vito Volterra" in Astronomical, Chemical, Earth, Mathematical and Physical Sciences, Sapienza University of Rome, Italy

- Outstanding Student Award;
  1st rank in basic sciences; 24th outstanding student award 2015-2016, Kharazmi university, Tehran, Iran

GRANTS

Research Grant (AVVIO ALLA RICERCA); November 2022; Sapienza University, Italy.

Grant reference: AR1221813D740B69

Academic Teaching Experiences

Teacher Assistant: Nov. 2015- Dec. 2016; Kharazmi University, Tehran, Iran

Courses: GIS software, and remote sensing (ENVI software)

Academic research activities

Postdoctoral research fellow: Feb 2024- Feb 2025; University of Rome “Sapienza”, Rome, Italy

Visiting researcher: May 2023- July 2023; University of Zurich, Zurich, Switzerland

- Geochronology group, Soil and Landscape Dynamics

SCIENTIFIC REVIEWING, MEMBERSHIP IN PANELS, BOARDS

Peer Reviewer in internationally peer-reviewed journals:

- Environmental Earth Sciences – Springer Nature
- Carbonates and Evaporites – Springer

SOFTWARE & SKILLS

Coding, statistical analysis and visualization: MATLAB, SPSS

Earth Observation processing and analysis: SNAP software; Satellite radar interferometry

Landscape evolution modelling: TTLEM in MATLAB software packages (e.g., TopoToolbox, DivideTools, Topographic Analysis Kit)

Hydrological modeling: ArcHydro, ArcMap, TopoToolbox (Matlab)

Image processing: ENVI, SNAP, ER Mapper, GIS, Google Earth

General skills:

- Leadership (responsible for a team, group work); Land Surveying- Field Work