



Nasrin Tavakolizadeh

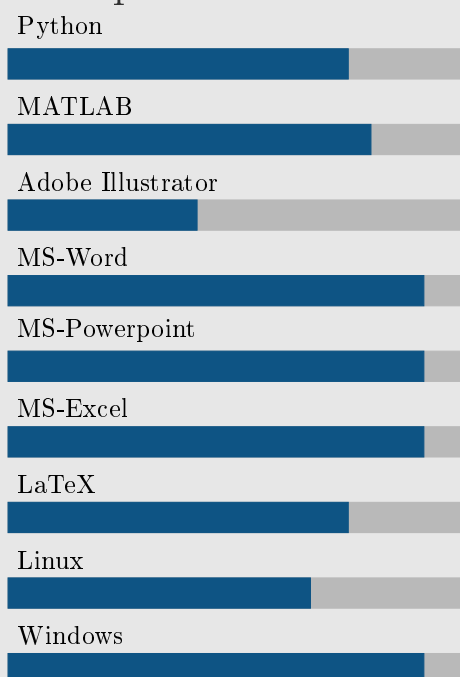


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Computer Skills —



Education

2017–2020	M.Sc. Seismology	Institute of Geophysics, University of Tehran, Iran
2009–2013	B.Sc. Applied Geology	Kharazmi University, Tehran, Iran

IELTS

2022	Overall: 7.5 L:8.5/R:8.0/W:6.5/S:7.5
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Publications

- 2023 To be submitted to: **Computers and Geosciences**, Tavakolizadeh, N., Mohammadigheymasi, H., Visini, F., Bruno P., Corresponding author: Tavakolizadeh, N., FiSH-SCC: An open-source MATLAB package for faults seismic activity rate calculation.
- 2023 Under review: **IEEE transactions on geoscience and remote sensing**, Mohammadigheymasi, H., Shi, P., Tavakolizadeh, N., Zhuowei, X., Mousavi, S. M., Matias, L., Mousavirad, S., J., Pourvahab, M., Fernandes, R., Corresponding author: Mohammadigheymasi, Hamzeh, IPIML: A deep-scan earthquake detection and location workflow Integrating Pair-Input deep learning model and Migration Location method.
- 2023 Mohammadigheymasi, H., Tavakolizadeh, N., Matias, L., Mousavi, M., Silveira, G., Custodio, S., Application of deep learning method for seismicity analysis in southern Ghana. **Geosystems and Geoenvironment** (2023). <https://doi.org/10.1016/j.geogeo.2022.100152>
- 2023 Mohammadigheymasi, H., Tavakolizadeh, N., Matias, L., Mousavi, M., Moradichaloshtori, Y., Mousavirad, S., J., Fernandes, R., A data set of earthquake bulletin and seismic waveforms for Ghana obtained by deep learning. **Data in Brief** (2023). <https://doi.org/10.1016/j.dib.2023.108969>.
- 2022 Mendeley Data, Mohammadigheymasi, H., Tavakolizadeh, N., Matias, L., Mousavi, M., Moradichaloshtori, Y., Mousavirad, S. J., Fernandes, R., Seismicity dataset of Ghana obtained by Deep Learning., <http://doi.org/10.17632/zz9txhw89w.1>.
- 2021 Tavakolizadeh, N., Bagheri, M., Multi-attribute Selection for Salt Dome Detection Based on SVM and MLP Machine Learning Techniques. **Natural Resources Research** (2021), <https://doi.org/10.1007/s11053-021-09973-8>.

Presentations

International Conferences

- 2022 Tavakolizadeh, N., Mohammadigheymasi, H., Matias, L., Silveira, G., Fernandes, R., and Dolatabadi, N., To what extent do slip rates contribute to the seismic activity of faults? **EGU General Assembly**, <https://doi.org/10.5194/egusphere-egu22-12893>.
- 2022 Mohammadigheymasi, H., Tavakolizadeh, N., Mousavi, S. M., Silveira, G., and Fernandes, R., Seismicity analysis in southern Ghana- I: Detecting local earthquakes by Deep Learning, **EGU General Assembly**, <https://doi.org/10.5194/egusphere-egu22-5860>.
- 2022 Custódio, S., Mohammadigheymasi, H., Tavakolizadeh, N., Matias, L., and Silveira, G., Seismicity analysis of Southern Ghana II: Updated crustal velocity model and hypocentral parameters, **EGU General Assembly**, <https://doi.org/10.5194/egusphere-egu22-5570>.
- 2021 Dolatabadi, N., Tavakolizadeh, N., Mohammadigheymasi, H., and Valentini, A., A combined fault- and catalog-based hazard assessment for Central Zagros, Iran., **EGU General Assembly**. <https://doi.org/10.5194/egusphere-egu21-14411>.
- 2019 Tavakolizadeh, N., and Sadidkhouy, A., Probabilistic Seismic hazard assessment and focal mechanism mapping of Minab fault zone and the Strait of Hormoz, **3rd Trigger International Conference**.

Nasrin Tavakolizadeh

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Softwares

QGIS

ArcGIS

OpenQuake

GitHub

ObsPy

Surfer

VELEST

SEISAN

Zmap

Crisis

OpendTect

Petrel

RES2DINV, RES3DINV

National Conferences

- 2020 Tavakolizadeh, N., and Bagheri, M., Presenting selected seismic attributes in salt dome delineation, 19th Geophysics Conference of Iran (GSI).
- 2020 Tavakolizadeh, N., and Bagheri, M., Application of a feature-based multi-layer perceptron neural network in salt detection, 19th GSI.
- 2016 Tavakolizadeh, N., Rahimi, B., Ghaemi. F., Review of asperities and distribution of stress within the epicenter of the 2014 earthquake with 6.2 MN in NW Zagros Mountains, The 34th national and 2nd International Geosciences Congress.
- 2016 Tavakolizadeh, N., Rahimi, B., Ghaemi. F., The study of seismotectonic and asperities in Zagros through the b-value parameter, The 34th national and 2nd International Geosciences Congress.

Research Interests

Numerical modeling and inversion, Developing and applying machine learning and deep learning methods, Passive seismic methods, Seismic Data Processing and interpretation, Fault modeling, PSHA, and Geophysical instruments.

Teaching experiences

- 2019 Teaching Assistance, Structural geology, Prerequisite course for Master of Earthquake Seismology.
- Institution Geophysics Institute, Tehran University
- Tasks Teaching structural geology lab, grading and preparing exercises.

Awards and Honors

- 2017-2020 Awarded full scholarship (tuition waiver) to study at the University of Tehran for graduate degree (Ranked 12th among participants in the Nationwide Universities Entrance Exam in the field of Geophysics and Meteorology for MSc degree, Summer 2017).
- 2013-2016 Awarded full scholarship (tuition waiver) to study at the Ferdowsi University of Mashhad for graduate degree.
- 2009-2013 Awarded full scholarship (tuition waiver) to study at the Kharazmi University for undergraduate degree.

Academic Service

- 2020 Member of coordinator team of 19th Geophysics Conference of Iran.

References

- Dr. Hamzeh Mohammadigheymasi
DOM LUIZ institute, University of Beira Interior, Portugal, hamzeh@ubi.pt
- Dr. Seyed Mostafa Mousavi
Stanford university, mmousavi@stanford.edu
- Dr. Majid Bagheri
Institute of Geophysics, University of Tehran, majidbagheri@ut.ac.ir