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EDUCATION

PhD in Seismotectonic, 2000-2003, University of Cambridge, Cambridge, UK.
Dissertation: Active faulting in the Zagros Mountains of Iran

Post Graduate Diploma in Seismology, 1994- 95, The International Institute of
Seismology and Earthquake Engineering, Tsukuba, Japan .
Dissertation: Earthquake Hazard Analysis in Japan

MSc in Geology (Tectonic), 1990-93, University of Shahid- Beheshti, Tehran, Iran .
Dissertation: Structural evolution of the Zagros fold and thrust belt.

BSc in Geology, 1984-88, University of Kerman, Iran.
Detailed petrographic map of ophiolites around Kerman

PROFESSIONAL EXPERIENCE

Research Manager, Research Institute for Earth Sciences, Geological Survey of Iran. 2018-present
Director of the Research Institute for Earth Sciences, Geological Survey of Iran, 2009-2018.
Head of Seismotectonic department, Geological Survey of Iran, 1996-2007
Senior geologist, Geological Survey of Iran, 1990-1996.
Senior geologist, Ministry of Industry and Mine, 1989-1990.
Field geologist for mining exploration, Geological Survey of Iran, 1988-1989.

Member of Academy of Science of Iran, 2023-present.
Member of Iranian Building Code advisory committee, 2008-present.
Member of Earthquake and Landslide working group of Tehran province, 2007-present.

EDITORIAL ROLES

Editorial Board Member, ANAS TRANSACTIONS, Earth Science, 2018 to present.
Editorial Board Member, Journal of Iranian Society of Petroleum Geology, 2024 to present.

GENERAL INTEREST

Active tectonics, earthquake hazard analysis and paleoclimate studies

TEACHING EXPERIENCE

Morphotectonic, M.Sc. Course, RIES, 2009-2018
Seismotectonic, M.Sc. Course, RIES, 2003-2018
Morphotectonic, PhD. Course, RIES, 2012-2018
Seismotectonic, PhD. Course, RIES, 2012-2018
Continental Tectonic Lab, Univ. Cambridge, 2001-2002

SELECTED PUBLICATIONS

1. Lei, Y., Chu, Y., Allen, M.B., Lin, W., Wan, B., Chen, L., Talebian, M., Xin, G., Liu, T., Guo, Y. and Guo, L., 2025. Restoring the missing Late Cretaceous arc of Iran. *Geochemistry, Geophysics, Geosystems*, 26(12), p.e2025GC012657.
2. Sun, J., Zhao, W., Ghalamghash, J., Talebian, M. and Sun, C., 2025. Late Cenozoic provenance shifts in the Alborz foreland basin in response to uplift and southward growth of the orogeny driven by Arabia-Eurasia collision. *Palaeogeography, Palaeoclimatology, Palaeoecology*, p.113447.
3. Chen, J., Peng, Z., Chen, L., Liu, Z., Lan, H., Talebian, M. and Yao, D., 2025. Triggered Tectonic Tremors in the Western Makran Subduction Zone Following Large Teleseismic Earthquakes. *Seismological Research Letters*.
4. Sun, J., Talebian, M., Windley, B.F., Cao, M., Ghalamghash, J., Sheikh, M., Sha, J. and Zhao, W., 2025. Neogene provenance evolution of the Zagros foreland basin: Implication for the uplift and outward growth history of the Zagros orogenic belt, Iran. *Geological Society of America Bulletin*.
5. Mousavi, Z., Talebian, M., Amiri, M., Walker, R.T., Marshall, N. and Walpersdorf, A., 2025. Constancy of geologic and geodetic fault slip rates across the Arabia-Eurasia collision revealed through two decades of observation. *Tectonics*, 44(3), p.e2024TC008380.
6. Xu, L., Sun, J., Talebian, M., Jin, C., Sheykh, M. and Shahbazi, R., 2023. Evidence for enhanced aridification since 13 Ma in the Qom back-arc basin, Central Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 629, p.111784.
7. Song, P., Ding, L., Zhang, L., Cai, F., Zhang, Q., Li, Z., Wang, H., Jafari, M.K. and Talebian, M., 2023. Paleomagnetism from Central Iran reveals Arabia-Eurasia collision onset at the Eocene/Oligocene boundary. *Geophysical Research Letters*, 50(12), p.e2023GL103858.
8. Wan, B., Chu, Y., Chen, L., Zhang, Z., Ao, S. and Talebian, M., 2023. *When and why the Neo-Tethyan subduction initiated along the Eurasian margin: a case study from a Jurassic eclogite in southern Iran. Compressional Tectonics: Plate Convergence to Mountain Building 1, Chapter 9* [online]
9. Chu, Y., Wan, B., Lin, W., Allen, M.B., Talebian, M., Uysal, I. and Xin, G., 2023. Coevolution of Paleo-Tethys and Rheic: New tectonic constraints from Iran and Turkey. *Geotourism/Geoturystyka*, (1-2 (72-73), pp.15-15.

10. Shnizai, Z., Talebian, M., Valkanotis, S. and Walker, R., 2022. Multiple factors make Afghan communities vulnerable to earthquakes, Temblor [online]
11. Wang, X., Chen, L., Talebian, M., Ai, Y., Jiang, M., Yao, H., He, Y., Ghods, A., Sobouti, F., Wan, B. and Chu, Y., 2022. Shallow crustal response to Arabia-Eurasia convergence in northwestern Iran: Constraints from multifrequency P-wave receiver functions. *Journal of Geophysical Research: Solid Earth*, 127(9), p.e2022JB024515.
12. Lan, H., Chen, L., Chevrot, S., Talebian, M., Wang, X., Gao, Y., Zhang, J., Wu, Z., Shokati, M., Jiang, M. and Ai, Y., 2022. Structure of the western Jaz Murian forearc basin, southeast Iran, revealed by autocorrelation and polarization analysis of teleseismic P and S waves. *Journal of Geophysical Research: Solid Earth*, 127(4), p.e2021JB023456.
13. Sun, J., Sheykh, M., Windley, B.F., Talebian, M., Cao, M., Ahmadi, N. and Sha, J., 2022. Magnetostratigraphic age control of the timing of tectonic deformation and the shifting depositional environments in the Dezful Embayment, Iran. *Tectonics*, 41(1), p.e2021TC006881.
14. Gao, Y., Chen, L., Talebian, M., Wu, Z., Wang, X., Lan, H., Ai, Y., Jiang, M., Hou, G., Khatib, M.M. and Xiao, W., 2022. Nature and structural heterogeneities of the lithosphere control the continental deformation in the northeastern and eastern Iranian plateau as revealed by shear-wave splitting observations. *Earth and Planetary Science Letters*, 578, p.117284.
15. Mousavi, Z., Fattahi, M., Khatib, M., Talebian, M., Pathier, E., Walpersdorf, A., Sloan, R.A., Thomas, A.L., Rhodes, E., Clive, F. and Dodds, N., 2021. Constant Slip Rate on the Doruneh Strike-Slip Fault, Iran, Averaged Over Late Pleistocene, Holocene, and Decadal Timescales. *Tectonics*, 40(6), p.e2020TC006256.
16. Sarhangi, M., Solgi, A., Talebian, M. and Maleki, Z., 2021. Analysis of tectonic hazards in Zendan Fault located in Jask area with emphasis on morphometry. *Environmental Management Hazards*, 8(4), pp.337-354.
17. Sarhangi, M., Solgi, A., Talebian, M. and Maleki, Z., 2021. Analysis of tectonic hazards in Zendan Fault located in Jask area with emphasis on morphometry. *Environmental Management Hazards*, 8(4), pp.337-354.
18. Sabouri, S.M., Haji Ali Beigi, H., Talebian, M. and Fatahi, M., 2021. Analysis of Location of Villages in Relation to Rupture Zone (Case Study: North Qazvin Fault). *Housing and Rural Environment*, 40(173), pp.49-60.
19. Sun, J., Sheykh, M., Ahmadi, N., Cao, M., Zhang, Z., Tian, S., ha, J., Jian, Z., Windley, B.F. and Talebian, M., 2021. Permanent closure of the Tethyan Seaway in the northwestern Iranian Plateau driven by cyclic sea-level fluctuations in the late Middle Miocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 564, p.110172.
20. Nankali, H.R., Sobouti, F., Voosoghi, B., Hessami, K., Talebian, M., Walpersdorf, A. and Tavakoli, F., 2020. 3D Mechanical Modeling of the GPS Velocity Field Along the Main

Recent Fault and Kazerun Fault (Zagros, Iran). *Journal of Seismology and Earthquake Engineering*, 10(2), pp.69-80.

21. Maheri-Peyrov, M., Ghods, A., Donner, S., Akbarzadeh-Aghdam, M., Sobouti, F., Motaghi, K., Hassanzadeh, M., Mortezaejad, G., Talebian, M. and Chen, L., 2020. Upper crustal structure of NW Iran revealed by regional 3-D Pg velocity tomography. *Geophysical Journal International*, 222(2), pp.1093-1108.
22. Rahmani, M., Motaghi, K., Ghods, A., Sobouti, F., Talebian, M., Ai, Y. and Chen, L., 2019. Deep velocity image of the north Zagros collision zone (Iran) from regional and teleseismic tomography. *Geophysical Journal International*, 219(3), pp.1729-1740.
23. Jamalreihani, M., Ghods, A., Mottaghi, S.K., Shabanian, E., Talebian, M. and Chen, B., 2019. Basement seismicity in the Lurestan Arc of Zagros. *Journal of Geoscience*, 29(113), pp.13-24
24. Day, C.C., Carolin, S.A., Walker, R.T., Ersek, V., Sloan, R.A., Dee, M.W., Talebian, M. and Henderson, G.M., 2019. Reply to Jaffe et al.: Paleoscience precision in an archeological or historical context. *Proceedings of the National Academy of Sciences of the United States of America*.
25. Savidge, E., Nissen, E., Nemati, M., Karasözen, E., Hollingsworth, J., Talebian, M., Bergman, E., Ghods, A., Ghorashi, M., Kosari, E. and Rashidi, A., 2019. The December 2017 Hojedk (Iran) earthquake triplet—sequential rupture of shallow reverse faults in a strike-slip restraining bend. *Geophysical Journal International*, 217(2), pp.909-925.
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27. Carolin, S.A., Walker, R.T., Ersek, V., Sloan, R.A., Dee, M.W., Talebian, M. and Henderson, G.M., 2019. Reply to Jaffe et al.: Paleoscience precision in an archeological or historical context. *Proceedings of the National Academy of Sciences of the United States of America*.
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30. Carolin, Stacy A., Richard T. Walker, Christopher C. Day, Vasile Ersek, R. Alastair Sloan, Michael W. Dee, Morteza Talebian, and Gideon M. Henderson. 2019. Precise timing of

abrupt increase in dust activity in the Middle East coincident with 4.2 ka social change. *Proceedings of the National Academy of Sciences* 116, no. 1: 67-72.

31. Faridi, M., Nazari, H., Burg, J.P., Haghipour, N., Talebian, M., Ghorashi, M., Shokri, M.A., Ahmadzadeh, E. and Sahebari, S.S., 2019. Structural Characteristics, Paleoseismology and Slip Rate of the Qoshadagh Fault, Northwest of Iran. *Geotectonics*, 53(2), pp.280-297.
32. Su, Z., Yang, Y.H., Li, Y.S., Xu, X.W., Zhang, J., Zhou, X., Ren, J.J., Wang, E.C., Hu, J.C., Zhang, S.M. and Talebian, M., 2019. Coseismic displacement of the 5 April 2017 Mashhad earthquake (Mw 6.1) in NE Iran through Sentinel-1A TOPS data: New implications for the strain partitioning in the southern Binalud Mountains. *Journal of Asian Earth Sciences*, 169, pp.244-256.
33. Wan, Bo, Chen Deng, Ali Najafi, Mohammad Reza Hezareh, Morteza Talebian, Leilei Dong, Ling Chen, and Wenjiao Xiao. "Fertilizing porphyry Cu deposits through deep crustal hot zone melting." *Gondwana Research* 60 (2018): 179-185.
34. Deng, Chen, Bo Wan, Leilei Dong, Morteza Talebian, Brian F. Windley, Hooman Dadashzadeh, Behzad Mohammadi, and Behzad Barati. "Miocene porphyry copper deposits in the eastern Tethyan orogenic belt: using Sr, O isotopes and Sr/Y ratios to predict the source of ore-related and ore-barren magmas." *Gondwana Research* (2018).
35. Zhang, Zhiyong, Wenjiao Xiao, Weiqiang Ji, Mahmoud Reza Majidifard, Mahnaz Rezaeian, Morteza Talebian, Dunfeng Xiang et al. "Geochemistry, zircon U-Pb and Hf isotope for granitoids, NW Sanandaj-Sirjan zone, Iran: Implications for Mesozoic-Cenozoic episodic magmatism during Neo-Tethyan lithospheric subduction." *Gondwana Research* (2018).
36. Talebian M., A. C. Copley, M. Fattahi, M. Ghoraiishi, J. A. Jackson, H. Nazari, R. A. Sloan, R. T. Walker, Active faulting within a megacity: the geometry and slip rate of the Pardisan thrust in central Tehran, Iran, *Geophysical Journal International*, 2016.
37. Su, Z., Wang, E.C., Hu, J.C., Talebian, M. and Karimzadeh, S., Quantifying the Termination Mechanism Along the North Tabriz-North Mishu Fault Zone of Northwestern Iran via Small Baseline PS-InSAR and GPS Decomposition. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. DOI:10.1109/JSTARS.2016.2586742, 2016.
38. Zhou, Y., Walker, R.T., Hollingsworth, J., Talebian, M., Song, X. and Parsons, B., Coseismic and postseismic displacements from the 1978 Mw 7.3 Tabas-e-Golshan earthquake in eastern Iran. *Earth and Planetary Science Letters*, 452, pp.185-196, 2016.
39. Walker, R.T., Khatib, M.M., Bahroudi, A., Rodés, A., Schnabel, C., Fattahi, M., Talebian, M. and Bergman, E.. Co-seismic, geomorphic, and geologic fold growth associated with the 1978 Tabas-e-Golshan earthquake fault in eastern Iran. *Geomorphology*, 237, pp.98-118, 2015.
40. Ao, Songjian, Wenjiao Xiao, Morteza Khalatbari Jafari, Morteza Talebian, Ling Chen, Bo Wan, Weiqiang Ji, and Zhiyong Zhang. "U-Pb zircon ages, field geology and

geochemistry of the Kermanshah ophiolite (Iran): From continental rifting at 79 Ma to oceanic core complex at ca. 36 Ma in the southern Neo-Tethys." *Gondwana Research* 31 (2016): 305-318.

41. Fattahi, M., Walker R., Khatib M., Zarrinkoub M., and Talebian M., "Determination of Slip-Rate by Optical Dating of Lake Bed Sediments from the Dasht-E-Bayaz Fault, NE Iran." *Geochronometria* 42, No.1, 2015.
42. Walker, R.T., Khatib, M.M., Bahroudi, A., Rodés, A., Schnabel, C., Fattahi, M., Talebian M. and Bergman, E., Co-seismic, geomorphic, and geologic fold growth associated with the 1978 Tabas-e-Golshan earthquake fault in eastern Iran, *Geomorphology* , 2015.
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44. Fattahi, M., Walker R.T., Talebian, M., Sloan, R.A. and Rasheedi, A.. Late Quaternary active faulting and landscape evolution in relation to Gowk Fault in the South Golbaf Basin, S.E. Iran, *Geomorphology*, 204, 334-343, 2014.
45. Copley, A., Faridi, M., Ghorashi, M., Hollingsworth, J., Jackson, J., Nazari, H., Oveisi, B., and Talebian, M..The 2012 August 11 Ahar earthquakes: consequences for tectonics and earthquake hazard in the Turkish–Iranian Plateau, *Geophys. J. Int.*, doi: 10.1093/gji/ggt379, 2014.
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48. Walker, R.T., Bergman, E.A., Elliott, J.R., Fielding, E.J., Ghods, A.R., Ghorashi, M., Jackson, J., Nemati, M., Oveisi, B., Talebian, M. & Walters, R. The 2010-2011 South Rigan (Baluchestan) earthquake sequence and its implications for distributed deformation and earthquake hazard in southeast Iran, *Geophysical Journal International*, 26 pgs. doi: 10.1093/gji/ggs109 , 2013.
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50. Riahi, M. A., Tabatabaei, S. H., Beytollahi, A., Ghalandarzadeh, A., Talebian, M. and Fattahi, M., Seismic refraction and downhole survey for characterization of shallow depth materials of Bam city, southeast of Iran, *Journal of the Earth & Space Physics*. Vol. 37, No. 4, P. 41-58, 2012.

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52. Fattahi, M., Aqazadeh, A., Walker, R.T., Talebian, M., Sloan, R.A. and Khatib, M.M., Investigation on the Potential of OSL for Dating Qanat in the Dasht-e Bayaz Region of Northeastern Iran Using the SAR Protocol for Quartz. *Journal of Seismology and Earthquake Engineering*, 13(2), p.65, 2011.
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