

Najmeh Etemad-Saeed

Birth Date: August 20th, 1983 (Tehran, Iran)

Marital Status: Single

Assistant Professor

Department of Geosciences,

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Education

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| 2009-2014 | Ph.D. in Sedimentology and Sedimentary Petrology
Shahid Beheshti University, Tehran, Iran
Thesis: Provenance, diagenesis and sedimentary environment of Kahar Formation in Sarbandan and Kahar Mountain sections (Central Alborz) |
| 2005-2008 | M.Sc. in Sedimentology and Sedimentary Petrology
Shahid Beheshti University, Tehran, Iran
Thesis: Petrography and sedimentary environment of Lalun Formation in Bahmoo section, Esfordi, Yazd |
| 2001-2005 | B.Sc. in Geology
Shahid Beheshti University, Tehran, Iran |

Work experience

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| Feb. 2015-Present | Assistant Professor at Institute for Advanced Studies in Basic Sciences (IASBS) |
| 2020-Present | <u>Co-Supervisor of Ph.D. Thesis at Tarbiat Modarres University:</u>
Provenance and Structural Evolution of the Abgarm Cenozoic Basin and Spatio-Temporal Pattern of Adjacent Mountains Uplift, Northwestern Iran- Navid Gavim |
| 2017-2019 | <u>Supervisor of M.Sc. Thesis at Institute for Advanced Studies in Basic Sciences (IASBS):</u>
- Provenance and tectonic setting of the Oligocene-lower Miocene deposits in the Mahneshan area, Central Iranian Basin- Zeinab Alimola |
| 2018-2020 | - Provenance and depositional environment of the Oligo-Miocene syntectonic sediments in the Mahneshan Basin, NW Iran - Negar Nasiri zadeh |
| 2018-2020 | - Facies analysis and diagenesis of the Geirud Formation in the Garmabdar section, Central Alborz - Nahid Karimi |
| 2018-2020 | - Cyclostratigraphy of the Lower Carboniferous Mobarak Formation in the north of Tehran: implications for the amplitudes and frequencies of sea-level fluctuations along the northern margin of Gondwana- Parvin Mousavi |
| 2019-Present | - Investigating the relationship between depositional environment and phosphate concentration in the Chopoghlu Member of the Soltanieh |

- Formation, Seyedkandi Section, southwest of Zanjan- Elaheh Peighambarpour
- 2019-Present - Provenance of Oligo-Miocene conglomerates and sandstones, Sheet section, Tarom Valley- Mina Karimi Tanha
- 2020-Present - Depositional environment of the Barut Formation at the Barut Aghaji section, northwestern Soltanieh Mountains- Tahereh Zaki
- 2020-Present - Geometry and structural evolution of the Nain Cenozoic basin in central Iran- Hora Saeni
- 2021-Present - Environmental distributions of microbialites in the Soltanieh Formation, Aq Kand Section, northwestern Soltanieh Mountains- Soroush Karimi

Advisor of M.Sc. Thesis at Institute for Advanced Studies in Basic Sciences (IASBS):

- 2015-2017 - Structural Geometry and Kinematics in the Frontal Fars- Ali Angoraj Taghavi
- 2016-2018 - Study of the North Alborz fault and its surrounding lacustrine sediments in Kelardasht and Marzanabad areas- Elaheh Amanpour
- 2016-2018 - Geometry and structural evolution of Halaj folded belt in Neogene foreland basin, west Alborz- Navid Ghavim
- 2018-2020 - Investigating the role of diagenetic processes in controlling reservoir quality: A case study from one oil field of the Southwest of Iran - Hava Mohammadnia
- 2018-2020 - Facies analysis and depositional environment of the Sarvak Formation in one stratigraphic section in the Zagros area - Reza Fakheri Raouf
- 2018-2020 - Facies architecture, depositional environments, and sequence stratigraphy of the Lower Carboniferous Mobarak Formation in the Central Alborz, Shahmirzad section, Iran - Navid Fele Gari

Advisor of M.Sc. Thesis at Shahid Beheshti University:

- 2010-2012 - Sedimentary environment and diagenesis of the Nayband Formation deposits in Bidoieh syncline, Zarand, Central Iran- Kamal Ahmadi
- 2013-2016 - Sedimentary petrology and sedimentary environment of the Oligocene siliciclastic sediments in Saran area, Central Iran- Majid Moghadasi
- 2016-2018 - Diagenesis, microfacies analysis and depositional environment in basal deposits of the Qom Formation in Isti Bolagh and Darband villages in Southwest of Zanjan- Mahdi Masomi

Research Interests

- Sedimentary basin analysis
- Provenance analysis
- Sedimentation and tectonics research
- Precambrian sedimentary rocks and evidence of life that they contain
- Environmental and geochemical changes across the late Proterozoic to the early Phanerozoic and their influence on life

Articles

Etemad-Saeed, N., Knoll, A.H., Najafi, M., Bergmann, K.D., Haseley, N., Karimi, S., 2021. Carbon isotope chemostratigraphy of a Gondwanan Ediacaran–Cambrian transition, Soltanieh Mountains, northern Iran. *Gondwana Research* 99, 163-177.

Etemad-Saeed, N., Najafi, M., Vergés, J., 2020. Provenance evolution of Oligocene–Pliocene foreland deposits in the Dezful embayment to constrain Central Zagros exhumation history. *Journal of the Geological Society* 177, 799-817.

Qavim, N., **Etemad-Saeed, N.**, Najafi, M., 2020. Tectonic provenance of the Upper Red Formation sandstones in the Hesar section, Mahnesan Basin (west Alborz). *Geosciences* 118, 37-46. (In Persian with English abstract)

Karimi, N., **Etemad-Saeed, N.**, Bayetgoll, A., Zohdi, A., 2020. Classification of phosphatic sedimentary rocks of the Jeirud Formation in the Garmabdar section, Central Alborz. *Applied Sedimentology* 14, 122-128. (In Persian with English abstract)

Alimola, Z., Najafi, M., **Etemad-Saeed, N.**, 2020. The style and timing of folding and faulting in the Mahnesan basin and Takab metamorphic complex. *Tectonics Journal, University of Birjand* 11, 59-70. (In Persian with English abstract)

Mousavi Taher, S.P., Bayet-Goll, A., **Etemad-Saeed, N.**, Daraei, M., Zohdi, A., Rabbani, J., Mohammad-Zadeh, F., 2021. Biostratigraphy and Sequence stratigraphy of the Lower Carboniferous deposits in the Alborz zone based on benthic foraminifera and isotopic geochemistry. *Researches in Earth Sciences* (doi: 10.29252/ESRJ.2021.214437.0- In Persian with English abstract)

Bayet-Goll, A., Daraei, M., Mousavi Taher, S.P., **Etemad-Saeed, N.**, de Carvalho, C.N., Zandkarimi, K., Monaco, P., Zohdi, A., Rabbani, J., Nasiri, Y., 2020. Variations of the trace fossil Zoophycos with respect to paleoenvironment and sequence stratigraphy in the Mississippian Mobarak Formation, northern Iran. *Palaeogeography, Palaeoclimatology, Palaeoecology* 551.

Etemad-Saeed, N., Najafi, M., 2019. Provenance and geochemical variations across the Ediacaran–Cambrian transition in the Soltanieh Formation, Alborz Mountains, Iran. *Geological Magazine* 156 (7), 1157-1174.

Hakimi, B., Masoumi, Z., Ghods, A., **Etemad-Saeed, N.**, 2019. Microtremor HVSR Study of Site Effects in Zanjan City- Iran. *Iranian Journal of Geophysics* 12 (4), 115-139. (In Persian with English abstract)

Najafi, M., Vergés, J., **Etemad-Saeed, N.**, Karimnejad, H., 2018. Folding, thrusting and diapirism: Competing mechanisms for shaping the structure of the north Dezful Embayment, Zagros, Iran. *Basin Research* 30 (6), 1200-1229.

Etemad-Saeed, N., Najafi, M., Zeinolabedin Qavim, N., Ghods, A.R., 2018. Facies analysis and paleo-environmental reconstruction of the Neogene sediments in the Northern Dezful Embayment, Zagros. *Geosciences* 108, 3-12. (In Persian with English abstract)

Taghavi, A., Najafi., M., **Etemad-Saeed, N.**, Sedigh, M., 2018. Frontal Fars Paleo-High evolution history, SE Zagros fold-and-thrust belt. *Geosciences* 109, 273-284. (In Persian with English abstract)

Taghavi, A., Najafi., M., **Etemad-Saeed, N.**, Sedigh, M., 2018. The style of folding in the Varavi, Lamerd, Tabnak, Gavbandi, Khayyam and Madar gas fields in coastal Fars. *Journal of Advanced Applied Geology* 27, 33-43. (In Persian with English abstract)

Etemad-Saeed, N., Hosseini-Barzi, M., 2017. Tectonic provenance of sandstones from the Bayandor Formation (late Neoproterozoic) in the Chopoghlu section, Northwest Iran. *Journal of Earth Science Researches* 30, 1-17. (In Persian with English abstract)

Honarmand, M., Li, X.-H., Nabatian, Gh., Rezaeian, M., **Etemad-Saeed, N.**, 2016. Neoproterozoic–early Cambrian tectono-magmatic evolution of the Central Iranian terrane, northern margin of Gondwana: Constraints from detrital zircon U–Pb and Hf–O isotope studies. *Gondwana Research* 37, 285-300.

Etemad-Saeed, N., Hosseini-Barzi, M., Adabi, M.H., Miller, N.R., Sadeghi, A., Houshmandzadeh, A., Stockli, D.F., 2016. Evidence for ca. 560 Ma Ediacaran glaciation in the Kahar Formation, central Alborz Mountains, northern Iran. *Gondwana Research* 31, 164-183.

Etemad-Saeed, N., Hosseini-Barzi, M., Adabi, M.H., Sadeghi, A., Houshmandzadeh, A., 2015. Provenance of Neoproterozoic sedimentary basement of northern Iran, Kahar Formation. *Journal of African Earth Sciences* 111, 54-75.

Etemad-Saeed, N., Hosseini-Barzi, M., Adabi, M.H., Sadeghi, A., 2015. Mineralogy and geochemistry of the Neoproterozoic Kahar mudrocks in Kahar Mountain (NW of Tehran). *Geosciences* 94, 287-298. (In Persian with English abstract)

Etemad-Saeed, N., Hosseini-Barzi, M., Adabi, M.H., Sadeghi, A., 2013. Tectonic provenance of Kahar Formation (Late Neoproterozoic) using modal and heavy mineral analyses in sandstones, type locality, Kahar Mountain, Central Alborz. *Geosciences* 88, 3-12. (In Persian with English abstract)

Etemad-Saeed, N., Hosseini-Barzi, M., Armstrong-Altrin, J.S., 2011. Petrography and geochemistry of clastic sedimentary rocks as evidences for provenance of the Lower Cambrian Lalun Formation, Posht-e-badam block, Central Iran. *Journal of African Earth Sciences* 61, 142-159.

Hosseini-Barzi, M., **Etemad-Saeed, N.**, 2010. Lithofacies, depositional environment and relative sea level changes in deposits attributed to Lalun Formation in Bahmoo section, Poshte badam block. *Geosciences* 76, 63-70. (In Persian with English abstract)

Hosseini-Barzi, M., **Etemad-Saeed, N.**, 2010. Tectonic provenance of Lalun sandstones in Bahmoo section, Central Iran: Implications for the impact of diagenetic processes in sandstone composition. *Earth Science Research* 1, 97-117. (In Persian with English abstract)

Etemad-Saeed, N., Hosseini-Barzi, M., 2009. Geochemistry of Lalun sandstones in Bahmoo section, Central Iran: Implications for source rock, paleoweathering and tectonic setting. *Iranian Journal of Geology* 9, 53-65. (In Persian with English abstract)

Conferences

Karimi, N., **Etemad-Saeed, N.**, Bayetgoll, A., Zohdi, A., 2020. Sedimentary phosphorites of the Jeirud Formation, Gamabdar Section-Central Alborz. The 5rd National Symposium of Sedimentological Society of Iran. August 17-18.

Nasiri, N., **Etemad-Saeed, N.**, Najafi, M., 2020. Microfacies analysis of the Qom Formation in the Yengejeh section, Mahneshan Basin. The 5th National Symposium of Sedimentological Society of Iran. August 17-18.

Mousavi Taher, P., Bayet Goll, A., **Etemad-Saeed, N.**, Daraei, M., Rabani, J., 2020. Study of facies elements and depositional environment of the Tournaisian-Visean deposits Central Alborz Zone-Mobarak Formation. The 5th National Symposium of Sedimentological Society of Iran. August 17-18.

Alimola, Z., Najafi, M., **Etemad-Saeed, N.**, 2019. Style of Folding and Faulting in the Mahneshan Basin and the Takab Metamorphic Complex. The 7th National Conference on Tectonics and Structural Geology of Iran. December 17.

Hosseini-Barzi, M., **Etemad-Saeed, N.**, 2019. QFL: Memory of ancient rocks. The 3rd TRIGGER International Conference, Zanjan, Iran. October 8-10.

Alimola, Z., **Etemad-Saeed, N.**, Najafi, M., Karimi, S., 2019. Provenance and tectonic setting of the Oligocene-Lower Miocene syntectonic deposits in the Mahneshan area, Central Iranian Basin. The 3rd TRIGGER International Conference, Zanjan, Iran. October 8-10.

Qavim, N., **Etemad-Saeed, N.**, Najafi, M., 2018. Provenance of the Upper Red Formation sandstones in the Northern Mahneshan Basin. The 4th National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Zanjan, Iran. October 24-25 (Top article).

Alimola, Z., **Etemad-Saeed, N.**, Najafi, M., 2018. Tectonic provenance of the Oligocene-Lower Miocene deposits in the Mahneshan area, NW Zanjan. The 4th National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Zanjan, Iran. October 24-25.

Mousavi Taher, P., Bayet Goll, A., Daraei, M., **Etemad-Saeed, N.**, Rabani, J., 2018. Shell beds, a key guide in determining the sedimentation environment (a Case Study on Lalan Section of Mobarak Formation in the Alborz Zone). The 4th National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Zanjan, Iran. October 24-25.

Qavim, N., Najafi, M., **Etemad-Saeed, N.**, 2018. Deformation style in the Northern Mahneshan Neogene Basin. The 36th National and the 3rd International Geosciences Congress, Tehran, Iran. February 6.

Etemad-Saeed, N., Najafi, M., 2017. Provenance of the Neogene foreland siliciclastic deposits in the Northern Dezful Embayment. The 3rd National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Tehran, Iran. May 9-10. (Lecture)

Taghavy, A., Najafi, M., **Etemad-Saeed, N.**, Seddigh, M., 2017. Deformation History of the Frontal Fars Paleo-High, based on growth strata patterns in Syntectonic Sediments. The 3rd National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Tehran, Iran. May 9-10.

Taghavy, A., Najafi, M., Seddigh, M., **Etemad-Saeed, N.**, 2017. Structural Geometry and Kinematics in the Frontal Fars Province. The 35th National Geosciences Congress, Tehran, Iran. February 22.

Etemad-Saeed, N., Hosseini-Barzi, M., 2016. Provenance of the Bayandor Formation in the Chopoghlu section, using modal analysis data. 8th symposium of Iranian Society of Economic Geology, Zanjan University, September 17-18.

Etemad-Saeed, N., Najafi, M., Ghods, A., 2016. Evolution of depositional environment of Neogene sediments in Zagros foreland basin, north of Dezful embayment. 20th symposium of the Geological Society of Iran, Tehran University, September 6-7. (Lecture)

Etemad-Saeed, N., Hosseini-Barzi, M., Sadeghi, A., 2016. Provenance of Kahar Formation; A potential source rock in late Ediacaran-Early Cambrian petroleum system (600-550 Ma). The 2nd National Congress of Iranian Sedimentologists, Emphasizing sedimentology of Hydrocarbon Reservoirs, Mashhad, Iran. April 27-28. (Lecture)

Najafi, M., Vergés, J., Godarzi, M. Gh., **Etemad-Saeed., N.,** Motamedi, H., Karimnejad, H., Ghods, A., 2016. Tectono-sedimentary evolution and petroleum system in north Dezful embayment, Zagros foreland basin. The 2nd National Congress of Iranian Sedimentologists, Emphasising sedimentology of Hydrocarbon Reservoirs, Mashhad, Iran. April 27-28.

Etemad-Saeed, N., Hosseini-Barzi, M., Sadeghi, A., 2016. Mat-related sedimentary structures in siliciclastics of the Kahar Formation, Sarbandan section. The 34th National and the 2nd International Geosciences Congress, Tehran, Iran. February 22-24. (Lecture)

Etemad-Saeed, N., Hosseini-Barzi, M., Adabi, M.H., Miller, N.R., Sadeghi, A., Houshmandzadeh, A., Stockli, D.F., 2015. Evidence for late Neoproterozoic glaciation (ca. 560 Ma) in oldest sedimentary exposures of northern Iran (Kahar Formation). The U.S., Iran, France Conference on Climate Change, Les Treilles, Tourtour, France. October 19-23. (Lecture)

Etemad-Saeed, N., Hosseini-Barzi, M., 2013. Microbialites in Neoproterozoic Kahar Formation, Alborz Mountain, northern Iran. The international biogeoscience conference, Nagoya, Japan. November 1-4, P. 82.

Etemad-Saeed, N., Hosseini-Barzi, M., 2009. Geochemistry of Lalun sandstones, Poshte-badam block, Iran: Implication for source area weathering, paleo-oxygenation, provenance and tectonic setting. Minpet 2009-MSCC 2009, Budapest, Hungary. September 7-11, P. 56.

Etemad-Saeed, N., Hosseini-Barzi, M., Asadi Mehmndousti, E., 2008. Sedimentary environment and tectonic provenance of Lalun Formation in Bahmoo Section, Central Iran. The 26th Symposium of Geosciences, Tehran, Iran. February 22-24. (Lecture)