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MARYAM SHEIBI

PERSONAL INFORMATION:

Date of Birth: 13th August 1979

Marital Status: Married

Nationality: Iranian

Languages:

- ❖ Persian: Native
- ❖ English: Reading, Writing, Speaking
- ❖ French: Conversational Level

EMPLOYMENT

March 2009-present *Assistant Professor*

Department of Geosciences, Shahrood University of Technology, Iran.

EDUCATION

Ph.D. in Petrology (2009), University of Tehran, Tehran, Iran

Title: Petrology, geochemistry, and emplacement mechanism of the granitoid batholith of Shir-Kuh (SW Yazd), Central Iran.

Supervisors: Prof. Dariush Esmaeili,

Advisers: Prof. Ali Kananian

Research Scholar: University of Paul Sabatier, Toulouse, France (2007), Under supervision of Prof. **Jean Luc Bouchez** and Prof. **Anne Nédélec**

M.Sc. in Petrology (2003); School of Geology, University of Tehran, Tehran, Iran.

Title: Petrology and geochemistry of intrusive rocks and associated iron skarn of Panj-kuh (south east of Damghan, Central Iran).

B.Sc. in Geology (2001); Department of Geology, University of Damghan, Damghan, Iran.

RESEARCH

FOCI

- ❖ Igneous petrology
- ❖ Geochemistry
- ❖ Mineralogy
- ❖ Anisotropy of magnetic susceptibility (AMS)
- ❖ Economic geology and mineral exploration
- ❖ Field trips

TEACHING

EXPERIENCE

I) SHAHROOD UNIVERSITY OF TECHNOLOGY, IRAN

Training of the following courses: 2009-present

B.Sc.

- ❖ Optical mineralogy
- ❖ Fundamental of mineralogy
- ❖ Igneous petrology
- ❖ Metamorphic petrology
- ❖ Geospatial information system, (GIS)

M.Sc.

- ❖ Geochemistry and magmatic processes
- ❖ Advanced volcanology
- ❖ Magmatism and metamorphism in Iran
- ❖ Mineralization and plate tectonic

Ph.D.

- ❖ The emplacement mechanisms of the intrusive bodies using Anisotropy of magnetic susceptibility method
- ❖ Ultrametamorphism and genesis of migmatites
- ❖ Magmatism and global tectonic processes

II) UNIVERSITY OF TEHRAN, IRAN

2004-2009

Teacher assistant of Optical mineralogy, Mineralogy, and petrography of igneous rocks

RESEARCH

PROJECTS

- ❖ Mineralogy and petrogenesis of the Challu iron skarn deposit (South East Damghan), Shahrood University of Technology, 2016.
- ❖ Petrology, geochemistry, zonation of alteration, and magnetic susceptibility of the Chah-Musi copper deposit, implications for genetic relation to Cu mineralization, Middle East Mines & Mineral Industries Development Holding Company, Iran, 2018.
- ❖ Comprehensive studies of the mineralogical, geochemical, magnetic fabric, and structural geology of the Shanq gold deposit, southeast of Delijan (Central Iran), The Iran Mineral Processing and Processing Company, 2022.

HONORS

- ❖ First ranked Ph.D. student in the Geology Department, University of Tehran (2009).
- ❖ Financial support from the Iranian Ministry of Science, Research, and Technology for six months outstanding in France (2007).
- ❖ GUNDISHAPUR Research Grant for project entitled: "Using anisotropy of magnetic susceptibility (AMS) and paleomagnetism to determine the emplacement mechanism of the Zaghar pluton (west Tafresh) in the central part of the Urumieh-Dokhtar magmatic arc, Iran" from the Center for International Scientific Studies & Collaboration (CISSC), Ministry of Science, Research, and Technology, Iran (2019).
- ❖ Superior teaching awards of Shahrood University of Technology (2021)

MEMBERSHIPS

- ❖ Iranian Geological Society
- ❖ Iranian Society of Crystallography and Mineralogy

REVIEWER FOR

- ❖ Geopercia
- ❖ Iranian Journal of Crystallography and Mineralogy
- ❖ Journal of Earth Science Researches
- ❖ Journal of Economic Geology
- ❖ Kharazmi Journal of Earth Sciences
- ❖ Petrological Journal

SUPERVISOR

- Aradfar I., 2022, Petrology, geochemistry, and emplacement mechanism of intrusive bodies in Basiran district (south Birjand), Ph.D. thesis, Shahrood University of Technology, Shahrood, Iran
- Skandari M., 2018, Geology and petrogenesis of igneous rocks in the northern part of the Toroud–Chah Shirin magmatic arc (North Central Iran Zone) with special reference to mineralization systems, Ph.D. Thesis, Shahrood University of Technology, Shahrood, Iran
- Mohaghegh M., 2021, Morphology and Mineral chemistry of gold in the Angoran gold plaser deposit, Mahneshan, M.Sc. Thesis, Shahrood University of Technology, Iran.
- Bakhtavar E., 2018, Mineral chemistry and emplacement mechanism of Kuhe-Sookhte subvolcanic intrusion (NW Toroud - South Shahrood) using anisotropy of magnetic susceptibility method (AMS), M.Sc. Thesis, Shahrood University of Technology, Iran.
- Hosseini A., 2018, "Nucleation rate and growth time of plagioclase crystals in the Chah-Musi subvolcanic dome (NW Toroud-South Shahrood) inferred from crystal size distributions (CSD)," M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.

- Shabestar E., 2018, Emplacement mechanism of Kuh-Zar pluton (SE Damghan) using the anisotropy of magnetic susceptibility (AMS) method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Shahrood, Iran
- Rahimi N., 2017, Using magnetic susceptibility anisotropy (AMS) technique for the identification of hydrothermal alteration passages in the intrusive body associated with the Spid Fe deposit (West Qom), M.Sc. Thesis, University of Tehran, Tehran, Iran.
- Skandari M., 2018, Patterns of magma flow in dikes of Chah-Musi subvolcanic igneous domes (NW Toroud- South Shahrood) inferred from magnetic fabric method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran
- Abedini A., 2018, Emplacement mechanism of Kuhe- Cheft subvolcanic dome (NW Toroud - South Shahrood) using anisotropy of magnetic susceptibility method (AMS), M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran
- Seifivand A., 2017, Investigation of the emplacement mechanism of Chah-musi subvolcanic igneous domes (NW Toroud- South Shahrood) by anisotropy of magnetic susceptibility (AMS) method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Pashapoore A., 2015, Importance of residual source material (restite) in the Azna- Aligudarz granitoid plutons petrogenesis, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Tatari E. 2014, Petrology and geochemistry of intrusive bodies of Lajaneh area and its associated mineralization, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Majidi P., 2013, Investigation of the emplacement mechanism of the Challu pluton (SE- Damghan) using Anisotropy of Magnetic Susceptibility (AMS) method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Pooralizadeh M., 2013, Emplacement mechanism of the Panj-Kuh granitoidic pluton using magnetic fabric method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Baghbani, Sh., 2012, Detailed investigation of Petrology and geochemistry of the Azna-Aligudarz granitoidic plutons (East of Lorestan), M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.
- Baddallu, S., 2012, Investigation of the emplacement mechanism of Gole-Zard granitoidic pluton (NW Aligudarz) by using anisotropy of magnetic susceptibility (AMS) method, M.Sc. Thesis, Shahrood University of Technology, Shahrood, Iran.

ADVISOR

- Vesali Y., 2019, Petrology, geochemistry and genesis of Jalal Abad region iron districts (Zarand), with special reference to copper mineralization, Ph. D Thesis, University of Tehran, Tehran, Iran.
- Raeisi D., 2018, Petrogenesis of the Tafresh granitoids and presenting a geochemical modeling for distinguishing fertile from barren intrusive bodies, Ph. D Thesis, University of Tehran, Tehran, Iran.

- Hosseini, A., 2017, Using magnetic susceptibility anisotropy (AMS) technique for magnetic susceptibility survey and alteration relative with iron mineralization in Moushakieh intrusive pluton (north west Qom) M.Sc. thesis, University of Tehran, Tehran, Iran.
- Mahbobe M., 2016, Investigation of magnetic parameter variations of high grade metapelitic rocks during migmatitisation and granitisation processes in Shotor Kuh metamorphic and igneous complex between Gorgabi and Jamil areas (SE Shahrood), M.Sc. Thesis, Shahrood University Of Technology.
- Vakili Noush Abadi, M. 2014, Mineralogy, geochemistry and formation mechanism of Vartaveh Iron mine in South Kashan. M.Sc. thesis, Shahrood University of Technology, Shahrood, Iran.
- Shekari S., 2009, Investigation of the emplacement mechanism of Darreh Bagh granitoidic pluton (NW Aligudarz) by using anisotropy of magnetic susceptibility (AMS) method, M.Sc. thesis, Shahrood University of Technology, Shahrood, Iran.

PUBLICATIONS

- Bakhtavar E., Sheibi M., 2021, The emplacement mechanism of Gholeh-Sukhteh intrusion, geodynamic implication of the Oligocene in South Damghan area, *Kharazmi Journal of Earth Sciences*, 7 (1), 63-80 (in Persian with English abstract). <https://gnf.khu.ac.ir/article-1-2763-en.html>
- Hosseini A., Sheibi M., 2021, Crystal size and shape distributions plagioclase and determining of crystal residence time in the Chah-Musa intrusion (South Shahrood), *Iranian Journal of Crystallography and Mineralogy*, 29 (1), 197-206. DOI:10.52547/ijcm.29.1.197, (in Persian with English abstract). <https://ijcm.ir/article-1-1594-en.html>
- Vesali Y., Esmaily D., Moazzen M., Chiaradia M., Morishita T., Soda Y., Sheibi M., 2020, The Paleozoic Jalal Abad mafic complex (Central Iran): implication for the petrogenesis, *Geochemistry*, doi: <https://DOI.org/10.1016/j.chemer.2020.125597>.
- Raeisi D., Mirnejad H, McFarlane CH, Sheibi M., Babazadeh SH, 2020, Geochemistry and zircon U-Pb geochronology of Miocene plutons in the Urumieh-Dokhtar magmatic arc, east Tafresh, Central Iran, *International Geology Review*, 62, 13-14, 1815-1827, DOI: [10.1080/00206814.2019.1600436](https://doi.org/10.1080/00206814.2019.1600436).
- Rahimi N., Mirnejad H., Sheibi.M. Karamian M.H., 2019, Petrography, mineralogy, geochemistry and calculation of elemental mass changes during hydrothermal alteration of Spid iron skarn ore deposit (West of Qom), *Kharazmi Journal of Earth Sciences*, 13 (51), 81-98 (in Persian, with English abstract). <http://geology.saminattech.ir/en/Article/9745>
- Seifivand A., Sheibi M., 2019, Ballooning emplacement and alteration of the Chah-Musa subvolcanic intrusion (NE Iran) inferred from magnetic susceptibility and fabric, *Geological Magazine*, 157(4), 621-639, DOI:10.1017/S0016756819001158.
- Mohammadi M, Sadeghian M, Sheibi M, Shekari S., 2018, Application of AMS method in the interpretation of developments of high grade metapelitic rocks of Late Neoproterozoic of Shotor Kuh metamorphic complex, *Kharazmi Journal of Earth Sciences*, 4 (1), 33-52 (in Persian with English abstract). <https://gnf.khu.ac.ir/article-1-2626-en.html>

- Raeisi D., Sheibi M., Mirnejad H., 2018, Emplacement mechanism of Tafresh granitoids, Central part of Urumieh-Dokhtar Magmatic Arc, Iran: Evidence from magnetic fabrics, *Geological Magazine*, 156 (9):1-17. [DOI:10.1017/S0016756818000766](https://doi.org/10.1017/S0016756818000766)
- Mirnejad H., Raeisi D., McFarlanec C., Sheibi M., 2018, Tafresh intrusive rocks within the Urumieh-Dokhtar Magmatic Arc: appraisal of Neo-Tethys subduction, *Geological Journal*, 54(5-6). <https://doi.org/10.1002/gj.3266>
- Sheibi M., Pashapoor A., Sadeghian M., 2017, Petrographic and geochemical evidences of restites (residual source material minerals) in the Gole-zard and Darreh-bagh granitoidic plutons, (Aligoodarz, Lorestan Province), *Iranian Journal of Crystallography and Mineralogy*, 24 (4), 729-740, (in Persian with English abstract). <http://ijcm.ir/article-1-68-en.html>
- Sheibi M., 2016, Mineralogy and petrogenesis of Challu iron skarn deposit (SE Damghan), *Iranian Journal of Crystallography and Mineralogy*, 24 (3), 449-460, (in Persian with English abstract). https://ijcm.ir/browse.php?a_id=78&sid=1&slc_lang=en
- Sheibi M., Mirnejad, H., Pooralizadeh M., 2016, Magnetic susceptibility anisotropy as a predictive magnetic exploration tool of iron oxide copper-gold (IOCG) deposits: Example from the Panj-Kuh iron deposit, NE Iran, *Ore Geology Reviews*, 72, 612–628. <https://doi.org/10.1016/j.oregeorev.2015.08.024>
- Sheibi M., and Pooralizadeh M., 2015, Emplacement mechanism of the Panj-Kuh granitoidic pluton using magnetic fabric method, *Scientific Quarterly Journal, Geosciences*, 24 (96), 117 – 128, (in Persian with English abstract). <https://doi.org/10.22071/gsj.2015.41698>
- Sheibi M., and Majidi P. 2015, Emplacement mechanism of the Challu granitoidic pluton using magnetic fabric method, *Scientific Quarterly Journal, Geosciences*, Vol. No. 24, 95,87-98, (in Persian with English abstract) <https://doi.org/10.22071/gsj.2015.42386>.
- Sheibi M., 2014, Mineral chemistry and mass changes of elements during alteration of Panj-Kuh intrusive body (Damghan, Iran), *Geopersia*, 4 (1), 87-102. [10.22059/JGEOPE.2014.51194](https://doi.org/10.22059/JGEOPE.2014.51194)
- Sadeghian M., Sheibi M., and Badallo S. 2014, The Emplacement Mechanism of the Gol-e-Zard Granodiorite Pluton, North of Aligoudarz, West of Iran, by Using of AMS Method, *Geosciences Scientific Quarterly Journal, Geosciences*, Vol. 23, No. 92, 129-142. (in Persian with English abstract). <https://doi.org/10.22071/gsj.2014.43692>
- Sheibi M., Bouchez J. L., Esmaily D., Siqueira R., 2012, The Shir - Kuh pluton (Central Iran): Magnetic fabric evidences for the coalescence of magma batches during emplacement, *Asian earth sciences*, 46, 39–51.
- Sheibi M., Esmaily D., Nedelec A., Bouchez J. L., Kananian A., 2010, Geochemistry and petrology of the garnet-bearing S-type Shir-Kuh Granite, SW Yazd, Central Iran, *Island Arc*, 19, 292–312. <https://doi.org/10.22071/gsj.2013.53843>
- Esmaily D., Sheibi M., Kananian A., 2006, Petrographic and geochemical evidence for sodic-calcic and potassic alteration in the Panj-Kuh intrusive rocks (North east of Iran). *Journal of Science, Iran* 32, 15-25 (in Persian with English abstract).

- Esmaily D., Sheibi M., Kananian A., 2006, Petrogenesis and evolution of the Panj-Kuh iron skarn (eastern Iran). *Scientific Quarterly Journal, Geosciences*, 59, 38-48 (in Persian with English abstract).
- Esmaily D., Sheibi M., Kananian A., 2004, Origin of scapolite in plutonic rocks of Panj-Kuh area (Damghan, north-eastern Iran). *Iranian Journal of Crystallography and Mineralogy*, 12: 190-201 (in Persian with English abstract).
- Esmaily D., Sheibi M., 2005, Sodic-calcic and potassic alteration in the Panj-Kuh volcanic and intrusive rocks, North East of Iran. *The International Earth Sciences colloquium on the Aegean region (IESCA)*. Abstract book, October 4-7, Izmir, Turkey.

CONFRESSES
(SELECTED
ONES)

- Raeisi D., Sheibi M., Mirnejad H., 2018, Transpressional tectonics during the emplacement of Ghahan and Kasva stocks, Central part of Urumieh-Dokhtar Magmatic Arc, Iran: Evidence from magnetic fabrics, 8th Geochemistry symposium, Antalya, Türkiye
- Pooralizadeh M., Sheibi M., Ghasemi H., 2013, The results of preliminary study of magnetic fabric in the Panj-Kuh granitoid, SE Damghan – Iran, *Mineralogical Magazine*, 77 (5) 1988.
- Sheibi M., Majidi P., Rezaei Kahkay M., 2013, Effect of hydrothermal alteration on magnetic susceptibility of Challu Pluton, SE Damghan- Iran, *Mineralogical Magazine*, 77 (5) 2191
- Sheibi, M., Nedelec, N., 2011, The chemistry of some minerals from the Shir-Kuh granitoidic batholith, South-West of Yazd, Central Iran, *Goldschmidt Conference Abstracts*, p 1852.
- Sadeghian, M., Badaloi, S., Sheibi, M., 2011, Preliminary results of magnetic fabric of the Golezard pluton, Aligoudars, Iran, *Goldschmidt Conference Abstracts*, p 1773
- Sadeghian, M., Shekari, S., Sheibi M., 2011, Microstructural and AMS investigation of Darre Bagh granitoidic pluton (SW Iran), *Goldschmidt Conference Abstracts*, p 1774
- Sadeghian M., Baghbani S., Sheibi, M., 2011, Magmatic evolution of Azna- Aligoudarz granitoidic plutons, SW of Iran: A typical example of S type granitization, *Goldschmidt Conference Abstracts*, p 1774
- Shekari, S., Sadeghian, M., Sheibi, M., Gavanji, N., 2011, Petrology, geochemistry and magnetism of Darreh Bagh granitoidic pluton (SW Iran), VII Hutton Symposium on Granites and Related Rocks, Avila, Spain, abstracts, p 135
- Badallo, S., Sadeghian, M., Sheibi, M., Kordavani, M., 2011, Magnetic fabric and microstructures of the Gole-Zard pluton, Aligoudarz, Iran, VII Hutton Symposium on Granites and Related Rocks, Avila, Spain, abstract book, p13.
- Sheibi M., Esmaily D., Nedelec A., 2009, Magmatic garnet in the Shir-Kuh granitoidic batholith, SW Yazd, Central Iran. *European Geosciences Union, General Assembly*, 19 – 24 April, Vienna, Austria.
- Sheibi M., Esmaily D., Bouchez J.L.b, Siqueira, R., 2008, Structural interplay between plutons during the construction of Shir- Kuh batholith, Central Iran, (SW Yazd). *European Geosciences Union, General Assembly*, 13 – 18 April, Vienna, Austria.

- Sheibi M., Esmaeily D. 2004, Study of Na-Cl metasomatism in the iron skarn of Panj-Kuh, south-eastern Damghan, Iran. 7th symposium of the Geological Society of Iran, proceedings, Aug. 28-30, University of Isfahan, Isfahan, Iran.
- Sheibi M., Esmaeily D., 2004, Iron ore deposit in the Panj-Kuh Area, South East of Damghan, Northern Iran. 32 international Geological Congress, Abstracts, (part 1), Pp. 157, Aug. 21-22, Florence, Italy.
- Sheibi M. and Esmaeily D., 2004, Hydrothermal alkali metasomatism in the Panj-Kuh area, South East of Damghan, North Eastern Iran. 5th international symposium on Eastern Mediterranean Geology, Proceeding, Pp. 1242-1243, 14-20 April, Thessaloniki, Greece.
- Sheibi M. and Esmaeily D., 2004, Sodic-calic and potassic alteration on the Panj-Kuh igneous rocks (North Eastern Iran). 8th symposium of the Geological Society of Iran, proceedings, Sep. 4-6, Shahrood University of Technology, Shahrood, Iran.
- Sheibi M., Esmaeily D., 2003, The results of primary study of intrusive rocks of Panj-Kuh, south-eastern Damghan, Iran. 21st symposium on the Geosciences, Abstracts, Feb. 17-19, Geological Survey of Iran.

**COMPUTER
AND
SOFTWARE
SKILLS**

- ❖ Microsoft Office
- ❖ Petrology Software Ability: Isoplot, GCDkit, Igpct, Minpet, petrograph, ...
- ❖ Graphical Software: Illustrator, Corel DRAW
- ❖ Technical knowledge of Arc Map
- ❖ Experienced in designing a systematic network for oriented core sampling in magnetic fabric studies.
- ❖ Expert in measuring the magnetic characteristics of rocks with MFK1 Multifunction Kappabridges and their related softwares.

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