

CURRICULUM VITAE



PERSONAL INFORMATION

Full Name	Ahmad Rabiee
Date of birth and place	23/09/1980, Sarband
Nationality	Iranian
Address	Largo S. L. Murialdo, N 1, 00146, Roma, Italy
Cell phone	3282590788
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Current assignment	Short-term Research fellow (RTDA), Roma Tre University

EDUCATION

2016-2019	PhD, Geology, University of Roma Tre Scuola Dottorale in Geologia dell'Ambiente e delle Risorse – Sezione: Geologia delle Risorse Naturali; Università degli Studi RomaTre Title of the Thesis The characterisation of the Tertiary Mianeh porphyry Mo deposit and associated magmatism, NW Iran
2002-2006	M.Sc., Economic Geology, Kharazmi University Department of Geology Title of the Thesis Geochemical Exploration of the Kuh-eDom Area and Genesis of the Kuh-e Dom Gold Prospect Mark 19/20
1998-2002	B.Sc., Geology, Kharazmi University Department of Geology

ACADEMIC EXPERIMENT

Jun. 2022 – Now	Fellow position (Researcher/lecturer) , Petrographic-geochemical characterization of geological materials by mass spectrometry technique; Università degli Studi RomaTre, Dipartimento di Scienze. The main activity concerns the performing analysis LA-ICPMS lab , standardization, optimization and maintenance of the corresponding machines to obtain and present acceptable quality data to the scientific community. We produce high quality elemental analysis and U-(Th)-Pb geochronology.data for the research projects and continue to optimize the analytical procedures.
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Dec. 2020 – May.2022	Fellow position (Assegno di Ricerca) , Design and construction of a first prototype of a portable compact sampler for monitoring the fibrous fraction contained in the airborne particulate (Project: INAIL-BRIC 2019), Università degli Studi RomaTre, Dipartimento di Scienze. During this project, a specific air sampler that is suitable for real-time imaging was built along with a developed artificial intelligence (Deep Learning) -based software in Python. The system overcomes the challenges of real-time measurement, and also the AI model detection surpasses the traditional manual counting method. An optical system was used to detect up to 1 µm asbestos particles.
Nov. 2019 – Nov. 2020	Fellow position (Borsa di Studio post-DOC) , PRIN-2017 project, Università degli Studi RomaTre, Dipartimento di Scienze
WORK EXPERIENCE (NON-ACADEMIC)	
2011-2015	Senior geologist: Persia Paya Madan Co., Iran. Title: Member of board and head of mineral exploration.
2005-2011	Exploration manager: Zarnab Exploration Consulting Engineers Co., Iran. Title: Full time, Project manager of mineral exploration projects.
2005	Junior geologist: Institute of Researches and Application of Mineral Resources, Iran Title: Part time collaboration in mineral exploration projects.
2004	Junior geologist: Exploration Department of National Iranian Oil Co., Iran Title: Head of GIS ready and cartography team for Geological map of Iran at 1:1000,000 scale; through a GIS and FreeHand based project.
2004	Junior geologist: Research and Development Department of National Iranian Oil Co., Iran Junior geologist: Full time collaboration in a project entitled “comprehensive investigations of Asmari resource” by a consortium of IFP, BP, Statoil, TOTAL, NIOC (R & D) companies as Software Supporting and assessing of stratigraphical and petrophysical logs.
2003	Junior geologist: Exploration Department of National Iranian Oil Co., Iran Junior geologist: Full time subsurface geologist as an expert in interpretation of geophysical logs and well logging.
SKILLS	
LANGUAGE	Persian (mother tongue), English, Italian (Intermediate)
FIELD WORK	• Ore exploration, in particular porphyry and epithermal deposits. • Geochemical exploration, remote sensing, hydrothermal processes. • Magma geochemistry, geological mapping. • Industrial minerals, mineral processing and beneficiation.
LAB WORKS AND TECHNIQUES	• Acid digestion of the silicate rocks, column chemistry • Laser-ablation and inductively coupled plasma mass spectrometry (LA-ICP-MS), thermal ionization mass spectrometry (TIMS) and XRF instrumentation, RAMAN Spectroscopy methodologies. • Data reduction softwares for LA-ICPMS; HDIP, iolite, CHROM+UPb11. • U-Pb geochronology on zircon, carbonates, titanite, rutile, apatite, ...

COMPUTER SCIENCE

- GIS Ready and integration methods such as Fuzzy Logic, Index Overlay and target ranking; Structural analysis.
- Programming: Python (professional), LabView
- Machin Learning (deep learning)
- Practical use of dedicated software (SPSS for statistics, Surface, Geolog, AutoCadMap, GeoISO, DAISY);
- ArcGIS, Ms-Office suite, Adobe Illustrator, Photoshop; Adobe Acrobat, Freehand and CorelDraw; ENVI

SCIENTIFIC AND EDITORIAL DUTIES

I am a peer reviewer for the following journals: *Gondwana Research*, *lithos*, *Tectonics Hazardous Materials*, *G-cubed*, *Geological Magazine*, *Mineralogical Magazinem*, *Minerals* ; Mineralogy and Petrology, Periodico di Mineralogia, Geochemistry and Acta Geodynamica et Geomaterialia

PUBLICATIONS

- Rabiee, A.**, Rossetti, F., Lustrino M., Azizi, H., M., Hossein Azizi, Asahara, Y., Alipour S., Selby D., 2024. Formation and degradation of a porphyry occurrence: the Oligocene Khatoon-Abad porphyry Mo-Cu system, NW Iran, *Ore Geology Reviews*.
- Rabiee, A.**, Rossetti, F., Asahara, Y., Lucci, F., Azizi, H., Rajabinasab, B., 2023. Carbonatization and overprinting mineralisation in Siah-Kamar porphyry Mo deposit, NW Iran, *Journal of Geochemical Exploration* (doi.org/10.1016/j.gexplo.2023.107230)
- Rabiee, A.**, Della Ventura G., Mirzapour, F., Paglietti, F., Malinconico, S., Bellagamba, S., 2023, Deep learning for real-time asbestos counting, *Journal of Hazardous Materials*
- Della Ventura G., **Rabiee, A.**, Marcelli A., Macis S., D'Arco A., Iezzi G., Radica F, Lucci F., 2023. A new approach to deposit homogeneous samples of asbestos fibres for toxicological tests in vitro. *Frontiers in Chemistry*, in press
- Rabiee, A.**, Rossetti, F., Lucci, Lustrino M., 2022. Cenozoic porphyry and epithermal mineralizations along the south Caucasus-and west Iranian tectono-magmatic belt: a critical reappraisal of the controlling factors. *Lithos*, <https://doi.org/10.1016/j.lithos.2022.106874>
- Curzi M. , Caracausi A., Rossetti F., **Rabiee A.**, Billi A., Carminati E., Aldega L., Bernasconi S., Boschi C., Drivenes L. K., Rizzo A. L., Sørensen B. E., 2022. From fossil to active hydrothermal outflow in the back-arc of the central Apennines (Zannone Island, Italy). *Geochemistry, Geophysics, Geosystems*, 23 (10). doi.org/10.3929/ethz-b-000579371
- Lucci, F., Saki, A., Miri, M., **Rabiee, A.**, & White, J. C. (2021). Genesis of trondhjemite by low-pressure low-melt fraction anatexis of hornblende-gabbro at Alvand Plutonic Complex (Hamedan, NW Iran): insights from geochemical modelling. *Arabian Journal of Geosciences*, 14(17), 1-20. doi.org/10.1007/s12517-021-08104-0
- Rabiee, A.**, Rossetti, F., Asahara, Y., Azizi, H., Lucci, F., Lustrino, M., & Nozaem, R., 2020. Long-lived, Eocene-Miocene stationary magmatism in NW Iran along a transform plate boundary. *Gondwana Research*, 85, 237-262. doi.org/10.1016/j.gr.2020.03.014
- Rabiee, A.**, Rossetti, F., Tecce, F., Asahara, Y., Azizi, H., Glodny, J., Lucci, F., Nozaem, R., Opitz, J. and Selby, D., 2019. Multiphase magma intrusion, ore-enhancement and hydrothermal carbonatation in the Siah-Kamar porphyry Mo deposit, Urumieh-Dokhtar magmatic zone, NW Iran. *Ore Geology Reviews*, doi.org/10.1016/j.oregeorev.2019.05.016.

CONFERENCE

- Rabiee, A.**, Della Ventura G., Mirzapour, F., Paglietti, F., Malinconico, S., 2022, Towards real-time measurement of airborne asbestos: challenges and solutions, IMA 2022, 23rd International Mineralogical Association General Meeting, Lyon, France
- Rabiee, A.**, Rossetti, F., Lucci, Lustrino M., A petroctectonic model for the Cenozoic porphyry/epithermal mineralizations along the Iranian tectono-magmatic belt, Trieste 2021, 90th Congresso della Società Geologica Italiana
- Rabiee, A.**, Rossetti, F., Asahara, Y., Nozaem, R., Azizi, H., Lucci, F., Tecce, F., Selby, D., November 2018. Multiple ore enrichment and mineralisation in Siah-Kamar porphyry Mo deposit (Urumieh-Dokhtar magmatic zone, NW Iran), Trans-disciplinary Research on Iranian Geology, Geodynamics, Earthquakes and Resources (*TRIGGER*)
- Mehrabi B., **Rabiee A.**, 2006, Intrusion Related Mineralization at Kuhe-Dome with Special Reference to Gold Mineralization and the Model for Exploration, 12th Quadrennial *IAGOD* Symposium in Moscow

Rome, 23/09/2024