

Zakarya YAJIOUI, Ph.D, Geologist

Zakarya YAJIOUI, Moroccan

Born 12-01-1991

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Experienced young scientist and geologist who specializes in petrography, structural geology, geochemistry, ore deposits projects and other challenging research about geodynamic evolution. Tenacious and determined, I leverage my technical knowledge and teamwork skills to find feasible and geologically sound approaches to work on multidisciplinary geology approaches. Exemplary in all aspects of field planning and geologic data analysis.

Education

2014-2019: University Moulay Ismail, Faculty of Sciences, Meknes, Morocco

Ph.D. Applied Geology

Title: Ediacaran-Cambrian evolution at the NE edge of the Saghro inlier (eastern Anti-Atlas, Morocco): insights from physical volcanology, geochemistry, geochronology, structural analysis and metallogenic implication.

Oct. 2018 to Oct-2019: Institut für Geologie und Paläontologie, Technische Universität

Bergakademie Freiberg, Germany

Doctoral program

Subject: The Ediacaran–Cambrian transition in the Saghro inlier (Eastern Anti-Atlas, Morocco) Geodynamic evolution of the northern Margin of the West African Craton and metallogenic implications.

Feb to Aug 2018: Faculty of Sciences, University of Porto, Portugal

Doctoral program

Subject: Structural analysis and ore deposit characterization at the Ediacaran-Cambrian transition, eastern Anti-Atlas, Morocco.

2012-2014: University Moulay Ismail, Faculty of Sciences, Meknes, Morocco. Specialized Master diploma, Minerals Resources and Energetics

Title: Contribution to the geology and structural analysis and metallogenic investigation at the NE of the Imiter inlier, eastern Anti-Atlas.

2009-2012: University Moulay Ismail, Faculty of Sciences, Meknes, Morocco. Bachelor Degree, Earth sciences and Universe.

Research experience

From Sept-2020: Geologist at COPMINCO, SARL. Casablanca, Morocco.

Nov-2019 to Febr-2020: Post-doc fellow; working on facies analysis and mineral chemistry on Ediacaran volcanic rocks, Saghro inlier, Anti-Atlas, Morocco. TU Bergakademie, Freiberg, Germany.

- 05-12 to 13-12-2019:** La-ICP-MS measurement on zircon for dating Precambrian magmatic rocks, Anti-Atlas (Morocco). Institute of Geosciences and Georesources, Pavia University, Italy.
- 31-08 to 04-09- 2019:** Fieldtrip examining different volcanic facies and related Ag, Au mineralization, Milos, Greece. Organized by the society for geology applied to mineral deposits.
- 26- 08-2019:** Fieldtrip examining Au, Pb, Cu deposit, Tyndrum district, Scotland. Organized by the UK SGA student chapter.
- 16-09 to 29-09-2018:** Geological mapping of the late Ediacaran volcano-sedimentary succession, eastern Anti-Atlas and the Precambrian of central High Atlas (Morocco). In the framework of collaboration project between the University of Moulay Ismail, Morocco and the University of Bergakademie, Freiberg, Germany.
- 06-12 to 11-12-2017:** Workshop about PGE-PGM mineralization in the Bou Azzer mining district, Anti-Atlas organized by Moroccan SGA student chapter in collaboration with SGA student chapter of Barcelona.
- 06-10 to 09-10-2017:** Geological mapping of the late Ediacaran volcano-sedimentary succession, northeastern of the Saghro inlier (Anti-Atlas, Morocco). In the framework of collaboration project between the Faculty of Science of Meknes, the University of Bergakademie, Freiberg, Germany.
- 02-10 to 26-10-2016:** Geological mapping of the Cambrian volcano-sedimentary succession at the SE of the Ougnat inlier, eastern Anti-Atlas, Morocco. Supervising master students from the University of Bergakademie, Freiberg, Germany. In the framework of collaboration project between the Faculty of Science of Meknes, the University of Bergakademie, Freiberg, Germany and DAAD (German academic research Office).
- 20-11-2015 to 15-05-2016:** Geological mapping, structural analysis and Cu-Ag exploration in the Precambrian Anti-Atlas belt, in the framework of scientific research in the north of the Saghro inlier, within the mining company of ANCEMAR.
- 30-09 to 07-10-2015:** Geological investigation on Ediacaran-Cambrian volcanosedimentary succession, eastern Anti-Atlas, Morocco In the framework of collaboration project between the Faculty of Science of Meknes, and the University Bergakademie of Freiberg.
- 26-04 to 20-05-2015:** Training on geological mapping and Cu-Ag exploration in the Tassafté mining area, Anti-Atlas belt, in the framework of scientific research in the north of the Saghro inlier, within the ANCEMAR mining company.
- 07-04 to 30-05-2014:** Geological mapping and Cu exploration at the NE edge of the Saghro inlier (Anti-Atlas, Morocco). ANCEMAR mining company.
- 01-10 to 01-11-2013:** Field camp on ore exploration and geological mapping in different Moroccan geological domains. In the Framework of master program in the collaboration between MANAGEM, CMT companies and Moulay Ismail, Morocco-Orléans, France universities'.

Fellowships and awards

18-11 to 14-12-2019: Erasmus plus fellowship at the TU Bergakademie of Freiberg, Germany.

16-08 to 30-09-2019: Erasmus plus fellowship at the TU Bergakademie of Freiberg, Germany.

08-2019: Conference Travel and Fieldtrip Grants, the 15th SGA Biennial Conference in Glasgow, 2019.

15-10-2018 to 15 -08-2019: Deutscher Akademischer Austausch Dienst (DAAD, Germany) fellowship for 10 months, at the TU Bergakademie of Freiberg, Germany.

01-02 to 30-07-2018: Erasmus mobile 3 plus fellowship within doctoral mobility at the University of Porto, Portugal.

2015-2017: Bourse d'excellence from National Center of Scientific and Technical Research (CNRST, Rabat).

Projects

2019: EPOS project (Earth Plate Observing System), "The Ediacaran units in the Eastern AntiAtlas and Central High Atlas, Morocco: Geodynamic evolution of the northern margin of the Gondwana". Moulay Ismail University, Morocco- IGG Istituto di Geoscienze e Georisorse, CNR, Pavia, Italy.

2018-2020: Erasmus+ project, « Deutsch-Marokkanische geowissenschaftliche Kooperation, ENI Programm (Entfernung 2432 km)". Moulay Ismail University- Technische Universität Bergakademie.

09/2016: DAAD project "German-Arab Transformation Partnership, Programme, Line 4: "Moulay Ismail University- Technische Universität Bergakademie.

Publications

A. Karaoui, C. Breitzkreuz, B. Karaoui, **Z. Yajoui**, A. Mahmoudi, A. Zanetti, A. Langone. (2021). The Ediacaran volcano-sedimentary succession in the Western Skoura inlier (Central High Atlas, Morocco): Facies analysis, geochemistry, geochronology and geodynamic implications. **International Journal of Earth Sciences**.

Z. YAJIOUI. Fig 1.2; Fig 3.15; Fig 3.58; Fig 6.6; Fig 6.28. In M, Soumyajit. **Atlas of structural geology. Second Edition. Elsevier, 2020.**

Z. Yajoui, B. Karaoui, D. Chew, C. Breitzkreuz, A. Mahmoudi. (2020), U–Pb zircon ages from the Ediacaran volcano-sedimentary rocks at the NE edge of the Saghro inlier (Anti-Atlas, Morocco): Chronostratigraphic correlation at the northwestern margin of Gondwana. **Gondwana Research Journal**.

J. Brauner, M. Arndt, **Z. Yajoui**, B. Karaoui, C. Breitzkreuz, A. Mahmoudi. (2019) Cambrian shallowmarine to emergent alkaline volcanism near Ouinguigui (Ougnat inlier, eastern AntiAtlas, Morocco): volcanic facies, geochemistry and geodynamic setting. **Journal of African Earth Sciences**.

Z. Yajioui, L. Badra, A. Lima, B. Karaoui, A. Mahmoudi. (2019). New occurrence of Ag-Hg-Cu mineralization in the Tassafte area, NE edge of the Saghro inlier, Ediacaran-Cambrian transition (Eastern Anti-Atlas, Morocco). **In Proceedings of the 15th Biennial SGA Meeting. Glasgow**, pp 1-4.

Skills

Geology: Fieldwork, mining geology, geological mapping, structural analysis, facies analysis, physical volcanology and ore deposit, drilling core analysis.

Laboratory: Preparation of thin section, zircon separation, petrography and ore minerals microscopy, fluid inclusion planes measurement, Scanning Electronic Microscopy, Microprobe, La-ICP-MS.

Geochemistry: Interpretation of whole rock geochemistry, ore minerals geochemistry.

Geophysics: Interpretation geophysics data of gravimetric and magnetism

Application software: Excel, word, PowerPoint, Qgis, Google Earth, Adobe Illustrator, Origin

Languages

Arabic: Mother tongue

French: Well

English: Very well

Associations and hobbies

Associations: "The Moroccan Scientific Community", "Society for Geology Applied to Mineral Deposits" and "Geological society of Africa".

Hobbies: Courses, Traveling, Reading, Cooking.