

Mahta Gholizadeh Ansari

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Education

Ph.D., Geology, University of Illinois, Urbana Champaign (2017-present)

M.Sc., Geological Engineering, Missouri University of Science and Technology (2015-2017)

B.Sc., Mining Engineering, University of Tehran (2009-2014)

Research interests

- Contaminant fate and transport mechanisms in Groundwater
- Bio-geochemical Reactive transport modeling in porous media
- Waste water treatment
- Hydrogeology
- Aqueous Geochemistry
- Environmental studies

Skills

COMPUTER SKILLS:

- Programming languages: Matlab , Python
- Engineering Software: CrunchTope, GWB, MathCad, ArcGIS, SPSS , Dips

LANGUAGES:

- English (fluent)
- Persian (fluent)
- Arabic (basic)

Research & Working Experience

Graduate Research Assistant| UIUC | August 2017-present

Conducts research on the role of porous media heterogeneity in the relationship between chemical reactions and isotope fractionation

Graduate Teaching Assistant| UIUC | August 2017-present

- Biweekly lectures to undergraduate Geology students
- Organization and supervision of lab activities.

Graduate Research Assistant | Missouri S&T | August 2015-2017

Bromide transport modeling in low to high permeability porous media

- Created a porous media with variable permeability using PETREL
- Conducted Monte Carlo simulations of contaminant transport using CrunchFlow

Magnesite dissolution modeling in heterogeneous porous media

- Modeled a porous media with variable spatial distribution of magnesite using PETREL
- Ran simulations to investigate the effect of changing pH, permeability, and magnesite spatial distribution on media porosity and magnesite dissolution rate

Graduate Teaching Assistant | Missouri S&T | January - August 2015

Research Assistant Intern | Technische Universitat Clausthal, Germany | Summer of 2013

Used acoustic particle characterization devices in the International & Surface Mining group to characterize size distribution of samples of soil material.

Research Assistant Intern | R&D department of Faryab Mining Co. | Summer of 2012

Worked with microscopes and other optical equipment to identify and characterize samples of soil material,

Publications

- **M. Gholizadeh Ansari**, P. Heidari, Y. Wang "Effect of Hydrogeochemical Conditions on Dissolution Rate of Magnesite: A Data Driven Study"- in prep.
- Several scientific research reports and articles published in "Rokhnamun" & "Haftsang" University journal.
- An article about the role of women in engineering published in "Shargh" newspaper 2010

Awards

- Outstanding Student Paper Award, AGU Fall Meeting Hydrology Section 2017
- Excellent teaching award, UIUC 2017

Activities

Iranian Tunnel and Dam Conference –Organizer-September 2010

Iranian Rock Mechanics Conference-Organizer-July 2011

Iran-Iraq Industries and Mines Conference-Organizer-September 2011

Geomathematical Mineral Resource Modeling workshop – October 2011

Eighth Conference of Mining Engineering– Office staff-January 2012

Rare Earth Elements (REE) workshop –January 2012

Office manager and head of the committee of **IAESTE Iran**-2012

Iran Mine House conference- Organizer-October 2012

Manager of the committee holding the annual ceremony of Alumni Association of Faculty of Engineering 2011-2014

Member of Nashr-e-Fan student society

Member of Student Scientific Society of Mining Engineering (UTSME)

Board member of MS&T Iranian student association, 2015-2017

Member of American Society of Civil Engineers, 2015-present

Member of Geochemical society of America, 2015-present

Member of American Geophysical Union, 2015-presesnt

Board member of UIUC Iranian cultural association, 2017-present