# MOHAMMAD HAGHIRI

Research Assistant at university of Illinois Chicago, Department of Earth, and Environmental Sciences,

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#### **EDUATION**

#### University of Illinois Chicago

Chicago, IL, USA

<u>Ph. D Student</u> – Department of Earth and Environmental Sciences

August 2023 – Present

Research Subject: predicting Water Table level from 1500CE to 3000CE; GPA:4.00

Advisor: Kerry Callaghan

**University of Tehran** 

Tehran, Iran

<u>M. Sc. Hydrogeology</u> – Department of Geology

September 2020 - May 2022 Research

Subject: Hydrochemical and isotopic analysis of karst aguifers; **GPA:3.47** 

Advisor: Morteza Mozafari

Kharazmi University

Tehran, Iran

B. Sc. Geology – Department of Geology

September 2016 – August 2020

Research Subject: Remote Sensing and Field Visit for Runoff Harvesting; GPA:3.40

Advisor: M.R Asef

#### **PUBLICATION**

**Haghiri, M.**, Mozafari, M. Delineate the hydrogeology of karst aquifers at the Hashtgerd Basin (north Iran) using a combination of geologic, hydrodynamical, hydrochemical and isotopic investigations. (accepted at Hydrogeology Journal).

- **Haghiri, M.**, Asef, M.R. Remote sensing and field visit for small scale runoff harvesting for agricultural water consumption management, case study at Kariyan, Hormozgan, Iran. Environ Earth Sci 83, 416 (2024). <a href="https://doi.org/10.1007/s12665-024-11734-8">https://doi.org/10.1007/s12665-024-11734-8</a>
- **Haghiri, M.**, Raeisi, N., Azizi, R. et al. 2024. Evaluation of karst aquifer development and karst water resource potential using fuzzy logic model (FAHP) and analysis hierarchy process (AHP): a case study, North of Iran. Carbonates Evaporites 39, 11 (2024). https://doi.org/10.1007/s13146-024-00925-w.
- **Haghiri, M.**, Asef. M.R. Analysis of Comparative Advantage and Engineering Status of Freshwater Reservoirs across the Provinces in Iran. Iranian Journal of Engineering Geology, 2021. <a href="http://www.jiraeg.ir/article-137494.html">http://www.jiraeg.ir/article-137494.html</a>.

Habibi. S, Mozafari, M. Fijani. E, **Haghiri, M**., *Determination of hydraulic conductivity and transferability of Hashtgerd Plain aquifer based on grain measurement and experimental formulas*. The 41st National Geosciences Congress, 2023.

### **ACADEMIC POSITION**

Ph.D Student – Department of Earth and Environmental Sciences, University of Illinois Chicago 2023 – Present

Research topic: I am passionate about advancing my studies in Hydrology and Hydrogeology. My current project focuses on predicting groundwater resources and assessing the impact of climate variables using the Water Table Model (WTM) to understand present and future changes in terrestrial water tables.

Supervisor: Professor Kerry Lee Callaghan.

## **Research Interests**

Python Language (C1), Tehran University (160 hours)

Hydrogeology; Climate Change; Water Table; landscape analysis and evolution; Karst Aquifer; Isotope Analysis, Rainwater Harvesting.

ACADEMIC EXPERIENCE	
<u>TA: Global Environmental Change</u> – Department of Earth Science, University of Illinois Chicago. prepared and independently presented labs. graded student labs and problem sets, held office hours, and assisted on a weekend field trip.	2024
<u>TA: Hydrology and Hydrogeology</u> - Department of Earth Science, University of Illinois Chicago. assisted in student instruction and grading of work during a high intensity 1-day field camp in northern Chicago.	2023
<u>TA: Hydrogeology</u> – Department of Earth Science, University of Tehran. helped Student labs, held office hours, and graded student submissions and I was head of field trip for this course.	2021
RA: Physical Geology – Department of Earth Science, Kharazmi University.	2019
Journal of Water Resources Management; Journal of Infrastructure, Policy, and Development	Peer Reviewer
FUNDING, ACHIEVEMENTS AND AWARDS	
Department of Earth Sciences, University of Illinois Chicago	2023
Department of Earth Science, University of Tehran.	2021
Department of Earth Science, University of Tehran.	2020
Department of Geology, Kharazmi University.	2019
Geological Society of Iran Undergraduate student research grant	2018
Geological Society of Iran	2017
Undergraduate student research grant	
CERTIFICATES	
ICDL (International Computer Driving License) Certificate (C1), Tehran University (120 hours)	2017

2019