

ALSHARIFA HIND MOHAMMAD

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Experience

- 2016 - Now* **Water, Energy and Environment Center, The University of Jordan**
Associate Researcher
Being a hydrogeological researcher in Water and Environmental studies in one of 2nd poorest countries in water resources is a challenge, increasing water demand and water pumping issues in a country with limited water resources just like Jordan, groundwater quality and quantity modeling under the increasing pressure of water pumping and increasing water demand with the natural pressures of climate change increase the important of water and environmental research in this hot area of the middle east.
- 2010 - 2016* **Water, Energy and Environment Center, The University of Jordan**
Assistant Researcher
Using the Geographic Information System GIS and Remote sensing to solve and figure the environmental challenges facing Jordan to help in promote water situation in the country.
The University of Jordan
Consultant researcher
Consultant researcher with a team from the center of consultations for JU in the project of using the groundwater aquifers in the sides of King Abdullah Canal for artificial groundwater recharge, for the **Ministry of Water and Irrigation.**
Water, Energy and Environment Center, The University of Jordan
- Sep 2009 - Feb 2010* Director Assistant in Quality Assurance
Director Assistant in Quality Assurance in Water, Energy and Environment Center, Sep. 2013-2016
Water, Energy and Environment Center, The University of Jordan
Coordinator
Integrated Water Resources Management IWRM Master Program between The University of Jordan and ITT Koln University for technology in Germany
Water, Energy and Environment Center, The University of Jordan
- 2013 - 2016* Lecturer
Integrated Water Resources module IWRM training course, WEEC, The University of Jordan
- 2015 - 2017* **Geology Department, Science collage, The University of Jordan**
Lecturer
Geology department , The University of Jordan
Lecturer Assistant
- 2010 - 2014* Researcher
- 2013 - 2016* **The University of Jordan**
Researcher with SMART project team.
- 2006 - 2009* **Geology department, The University of Jordan**
Lab supervisor
- 2006 - 2009* Hydrochemical water lab supervisor/ Geology department/ The University of Jordan.
- 2008 - 2009*

Education

2009

Science school, The University of Jordan

PhD, Applied and Environmental Geology with a major of Groundwater, Hydrogeology and Environmental studies, Very good

2006

Graduate studies school, The University of Jordan

McS, Environmental Studies and Management with a major in environmental vulnerability studies, Very good

Projects

Sustainable Groundwater Resources Management T by Integration Earth Observation Derived Monitoring and Flow Modeling Results

PRIMA, European Union, 2020-2024.

Water Management Study for Queen Alia International Airport

Water Management Study for Queen Alia International Airport, funded by AIG, 2019.

A conceptual model to analyze urbanization and the effects of agricultural activities on groundwater levels and quality in Amman Zarqa basin

SRSIF, Jordan, 2021-2023.

Evaluation of Water Quality of Kufranja Dam in Jordan Using Physiochemical Parameters and Water Quality Indices.

Evaluation of Water Quality of Kufranja Dam in Jordan Using Physiochemical Parameters and Water Quality Indices, The University of Jordan, 2018.

Water and Wastewater Utilities for Climate Mitigation (WaCCliM) Project

Water and Wastewater Utilities for Climate Mitigation (WaCCliM) Project; study for Madaba area, Funded by GIZ, 2017.

Promoting water use efficiency in Green Schools in Jordan

Promoting water use efficiency in Green Schools in Jordan, funded by USAID through the Young Water Scientific Partnership Program, 2014-2015.

Utilizing solar energy for water pumping and brackish water desalination in agriculture

Utilizing solar energy for water pumping and brackish water desalination in agriculture, 2014 funded by USAID through MENA_NWC grants.

Studying the effects of using the effluent of King Talal dam water in irrigation on soils and groundwater in evaluating of groundwater vulnerability maps for the area

Studying the effects of using the effluent of King Talal dam water in irrigation on soils and groundwater in evaluating of groundwater vulnerability maps for the area, Funded by the Scientific Research Fund, Ministry of Higher Education, Jordan_ 2013-2015.

Piloting and strengthen adaptation capacity to climate change in the Zarqa river basin

Piloting and strengthen adaptation capacity to climate change in the Zarqa river basin_ Team member_ funded by UNDP, 2012-2014.

Publication

The Geodiversity of Springs in the Potential Jericho Geopark/Palestine

Marwan Ghanem, África de la Hera-Portillo, Alsharifa Hind Mohammad, Nour-Eddine Laftouhi, Badiaa Chulli and Fagr Kh. Abdel-Gawad, Resources, Opem access, 2022.

Analysis of Historical Precipitation in Semi-Arid Areas: Case Study of Amman Zarqa Basin.

Khaldoun Shatanawi, Alsharifa Hind Mohammad, Taleb Odeh, Mazen Arafeh, Maha Halalsheh, Ghada Kassab, Journal of Ecological Engineering, 2022.

A Recommended Urban Plan According to Flash Flood Risk Potential Map: The Case Study of Mecca Province - Saudi Arabia.

Taleb Odeh, Abbas I. Alakhras, Mohamed Habib, Omar Alduaij, Alsharifa Hind Mohammad, Faten Alslaty, International Journal of Sustainable Development and Planning, 2022.

Stakeholders' perspective on groundwater management in four water-stressed Mediterranean areas: priorities and challenges.

Roberta Boni, Pietro Teatini, Claudia Zoccarato, Carolina Guardiola-Albert, Pablo Ezquerro, Guadalupe Bru, Roberto Tomás, Javier Valdes-Abellan, Conception Pla, María I. Navarro-Hernández, Alper Elçi, Baris Çaylak, Ali Hakan Ören, Khaldoun Shatanawi, Alsharifa Hind Mohammad, Husam Abu Hajar, Tommaso Letterio, Roberto Genovesi, Hazem Hreisha, Qamar Al-Mimi, and Claudia Meisina, Land Journal, 2022.

GIS-based analytical modeling on evaluating impacts of urbanization in Amman water resources, Jordan.

Taleb Odeh, Alsharifa Hind Mohammad, Soni M. Pradhanang, Mamoon Ismail, Tino Rödiger, Environmental Earth Sciences Journal, 2022.

Assessing Water Quality of Kufranja Dam (Jordan) for Drinking and Irrigation: Application of the Water Quality Index.

M. Abualhajjaa, AH Mohammad- Journal of Ecological Engineering, 2021.

Detecting Land Use/Cover Dynamics and Land Suitability Mapping for Irbid Governorate Using an Integrated Approach.

AH. Mohammad, T. Odeh, M. Halasheh, K. Shatanawi- Journal of Environmental Engineering and Landscape Management, 2021.

Quantity not quality: promoting sustainable wastewater practices in Jordan.

AH Mohammad, W Hazimeh, K Shatanawi... - Water Policy, 2020.

Wise Water Resources Management under the Increasing Number of Refugees in the Third Poorest Water Resources Country (Jordan)—A Suggested Future Spatial Plan for Water Resources Investments

T Odeh, AH Mohammad - Planning Journal, 2020.

Baseline carbon emission assessment in water utilities in Jordan using ECAM tool

Motasem Saidan; Hussam J. Khasawneh; Hassan Aboelnga; Sureyya Meric; Ioannis Kalavrouziotis; A. H. Mohammad; Bassam O. Hayek; Salam Al-Momany; Mohammad Al Malla; Jose C. Porro, Journal of Water Supply: Research and Technology-Aqua (2019)

Over-pumping of groundwater in Irbid governorate, northern Jordan: a conceptual model to analyze the effects of urbanization and agricultural activities on groundwater levels and salinity

T Odeh, AH Mohammad, H Hussein, M Ismail... - Environmental Earth Sciences, 2019.

Heavy Metals in water and sediments of King talal Dam the largest Man-Made water Body in Jordan.

MM Abualhajja, MW Shammout, AH Mohammad... - Water and Energy International, 2019.

Chemical indices of water quality in the Zarqa River-Jordan: concentrations of major cations and water suitability for irrigation.

AH Mohammad, M Abualhajjaa, MW Shammout - International Journal of Applied Engineering Research, 2018.

Understanding the impact of droughts in the Yarmouk Basin, Jordan: monitoring droughts through meteorological and hydrological drought indices.

AH Mohammad, HC Jung, T Odeh, C Bhuiyan... - Arabian Journal of Geosciences, 2018.

Changes in Total Dissolved Solids Concentration during Infiltration through Soils (Rain, Fresh Groundwater and Treated Wastewater).

Mohammad, A.H., Abdullat, G. and Alzughoul, K. (2017) Journal of Environmental Protection, 8, 34-41.

Chemical Indices of Water Quality in the Zarqa River-Jordan: Concentrations of Major Cations and Water

Suitability for Irrigation

Mohammad, A.H., Abualhaija., M., and Shammout, M.(2017), International Journal of Applied Engineering Research.

Assessing the groundwater vulnerability in the upper aquifers of Zarqa River Basin, Jordan, Using DRASTIC, SINTACS, and GOD methods

Mohammad A. H., international journal of water resources and environmental engineering, Jan. 2017.

The effects of ex-situe oil shale mining on groundwater resources in Siwaqa area, southern Jordan, using DRASTIC index and hydrochemical water assessment

Mohammad A. H, Kurdi O and Salmeh E, Earth Sciences Research Journal, 2016.

Analysis of Photovoltaic (PV) Powered Water Pumping and Desalination without Energy Storage for Agriculture

Jason Q, Mohammad A.H, Economic Desalination Journal, Elsevier, 2016.

Structural control on drainage network and catchment area geomorphology in the Dead Sea area - an evaluation using remote sensing and geographic information systems in the Wadi Zerka Ma'in catchment area (Jordan)

Odeh T, Mohammad A.H, Journal of Earth sciences, Springer, 2016.

Modified modeling of potentiality and vulnerability of the groundwater resources in Amman Zarqa Basin, Jordan,

Mohammad, A.H, Shatanawi. K and Odeh T, A, Kuwait Journal of Sciences, Vol 43 No. 1 2016.

Developing a land suitability index for agricultural uses in Dry lands from Geologic point of view using GIS- a case study from Jordan

Alfarajat, M. Mohammad, H. Thiabat, A. and Ibrahim, H. Indonesian Journal on geosciences, Vol 2 No. 1, August 2015, 63-76.

Groundwater vulnerability for the surface outcropping aquifers in Jordan

Mohammad, H. Momani, Th. and Elhujouj I, Journal of Environmental Protection, 2015, 6, 250-258.

Groundwater vulnerability and Hydrochemical analysis of Disi sandstone aquifer –Jordan

Mohammad, H, Shatanawi. K, International Journal of Applied Environmental Sciences, October 2014.

New Groundwater vulnerability index for the main aquifers in central Jordan and validation of the results using NO3 concentration maps

Mohammad. H. World Environment Journal, February 2014

Discrete Multi-Criteria Optimization DSS for Water Scarce Basin: A case from Jordan

Shammout, m, Mohammad H, life sciences journal, June, 2014.

Vulnerability of groundwater system in central Jordan Valley/ Pollution indicators and decontamination process

Alraggad, M, Al-Saleh, S, Al-Amoush,H, Mohammad,H, and Isied, D, Journal of natural resources and protection, March, 2012.

The fate of Disi aquifer as stratigic reserve for shared countries (Jordan and Saudi arabia),

Mohammad, H, Shammout, Alrousan,D and Alraggad, M, Journal of natural resources and protection, Nov 2011.

Assessing groundwater vulnerability in Azraq basin area using a modified DRASTIC index

Mohammad,H and Alraggad, M, Journal of water resources and protection, Nov 2010.

Potentiality of Managed Aquifer Recharge (MAR) through surface infiltration in Azraq,

Alraggad, M and Mohammad H, Journal of water resources and protection, Dec 2010.

GIS modeling of the effects of climatic changes on the groundwater recharge in the central western parts of Jordan

Mohammad,H and Alraggad, M (2009), Jordan journal of civil engineering, Vol. 3 No. 5, Jordan.

GIS Mapping of Ground Water Vulnerability Against Pollution in Amman Using DRASTIC Index

Alfarajat M, Hamddan I, Jaber K, Mohammad H. Hydrogeologie und Umwelt, 2005

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