

## CONTACT



## Esraa Radi Tarawneh

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## OBJECTIVE

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I seek challenging opportunities where I can fully use my skills for the success of my organization.

## EXPERIENCE

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9 Jan 2018 -  
Currently

- **Assistant Professor**  
Mutah University  
Assistant Professor in the Civil and Environmental Engineering Department. Main tasks include:
  - Teaching (UG/PG)
  - Supervising graduation projects and Masters theses.
  - Relevant admin tasks.

Jan 2012 - Jul  
2017

- **Teaching Assistant - Center of Engineering Sustainability**  
University of Liverpool  
Main tasks include:
  - TA in the Center of Engineering Sustainability.
  - Lab demonstrator.
  - Demonstrator on Open Days and University events.
  - Exam invigilation
  - Residential Advisor at the University accommodations.

Aug 2008 - Dec  
2011

- **Civil Engineer**  
Ministry of Public Works and Housing  
Highway Engineer and head of road maintenance department.

Feb 2008 - Jul  
2008

- **Civil and Environmental Engineer**  
Greater Karak Municipality

Jul 2004 - Jul  
2005

- **Trainee Engineer**  
Ministry of Public Works and Housing

## EDUCATION

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- 2017
  - **Liverpool University**  
PhD - Water and Environmental Engineering
- 2008
  - **Mutah University**  
Master's - Water and Environmental Engineering  
Excellent
- 2004
  - **Mutah University**  
Bachelor's - Civil Engineering  
Very good

## SKILLS

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- ICDL certified
- Microsoft Office
- GIS skills
- Hydrological Modeling
- Team involvement and leadership

## PERSONAL DETAILS

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- Nationality : Jordanian

## LANGUAGES

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- Arabic - Mother language
- English - Fluent (IELTS 7)

## FUNDED PROJECTS

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- **UK-Jordan Researcher Link Workshop**  
PI (Jordan) of the Newton-Khalidi funded workshop in collaboration with Sheffield Hallam University and presence of participants from several UK and Jordan academic institutions (e.g. Oxford University), 2019.
- **Developing an interdisciplinary approach to managing flood hazards in dryland rivers**  
PI (Jordan) of a CIDRA-SEED GRANT funded project in collaboration with Aberystwyth University and Sheffield-Hallam University, 2019.
- **eMaster in Water Resources Engineering**  
Role: PI (Jordan)  
Erasmus+ funded project (€924k) in collaboration with universities in Jordan, Palestine, Netherlands and Belgium, 2020.

## HONORARY POSITIONS

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- University of Glasgow, United Kingdom, Affiliated member of staff, 2022.
- Florida University, United States, Faculty Consultant, International Center, 2021.
- Role Model of Women in Engineering - Liverpool University.

## HONORS & AWARDS

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- **Study UK Alumni Award**  
A national finalist for the Study UK Alumni Award (2022/2023).  
The global winner is to be announced in Sep 2023.
- **IHE Scholarship (DUPC2)**  
A full scholarship to attend a training course on Water Scarcity and Drought Risks in a Changing Climate (Cairo, Egypt, 2023)
- **EGU travel grant**  
Awarded a travel grant to attend the EGU 2023 in Vienna, Austria.
- **Fulbright JFDP**  
Awarded Fulbright Junior Faculty Development Program (2020).
- **IGSH scholarship**  
A full scholarship to attend the International German Summer School on Hydrology in Bochum, Germany (2020).
- **EGU travel grant**  
Awarded a travel grant to attend the EGU 2020 in Vienna, Austria.
- **2nd place, Postgraduate Poster Competition**  
University of Liverpool, 2014.
- **3rd place, Postgraduate Poster Competition.**  
School of Engineering, Liverpool University, 2014.
- **ISS Scholarship**  
A full scholarship to attend a 6-week course on Energy, Environment and Sustainable Development in Oslo, Norway (2011).
- **Hydroaid**  
Several scholarships to attend distance learning course with Hydroaid, Turin, Italy (2009 - 2010).

## DISSERTATIONS & THESES

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- **Hydrologic, hydraulic and structural design of a dam on the Yarmouk River, Jordan.**  
Graduation Project - Civil Engineering BSc, Mutah University, 2004.  
Supervisor: Prof. Abbas Ijam
- **Water and sediment yield for the Wala dam catchment area.**  
Master thesis, Water and Environmental Engineering, Mutah University, 2007.  
Supervisor: Prof. Abbas Ijam.
- **Robust hydrologic modeling for land and water management in data-scarce Environments**  
PhD thesis, University of Liverpool, 2017.  
Supervisors: Dr Jonathan Bridge & Dr Neil Macdonald.

## COURSES TAUGHT

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- Hydrology
- Water Resources Engineering
- Hydraulics
- Numerical Methods
- Mechanical Engineering - Statics
- Air and Industrial Pollution

## CONFERENCES

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- **European Geosciences Union EGU**  
Vienna, Austria, 2009.
- **Soil and Water Assessment Tool (SWAT) Conference**  
Toulouse, France, 2013.
- **European Geosciences Union EGU**  
Vienna, Austria, 2016
- **European Geosciences Union EGU**  
Vienna, Austria, 2019.
- **European Geosciences Union EGU**  
Vienna, Austria, 2020 (Online).
- **Environmental Modelling and Software for science based decision making**  
Brussels, Belgium, 2022

## CERTIFICATES

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- **Water Scarcity and Drought Risks in a Changing Climate**  
IHE Delft Institute for Water Education and NBCBN-Foundation, Egypt, 2023.
- **Soil and Water Assessment Tool (SWAT) workshop**  
Paul Sabatier University, France, 2013.
- **Energy, Environment and Sustainable Development**  
Oslo University, Norway, 2011.
- **Technical Course on Wastewater Treatment and Disposal of Urban Solid Waste**  
Hydroaid Distance Learning on Sanitation, 2010.
- **English Communication Skills**  
The National Training Center, Jordan, 2010.
- **Technical Course on Urban Waste Recycling**  
Hydroaid Distance Learning on Sanitation, Italy, 2010.
- **Highway Maintenance**  
Al-Janoub Center for Training, Jordan, 2009.
- **Design of Sewer Networks Using SewerCAD**  
The Engineer's Training Center, Jordan, 2009
- **Land Development**  
The Engineer's Training Center, Jordan, 2009.
- **Environmental System Modelling**  
UNESCO-IHE, Delft, Netherlands, 2008.
- **Groundwater Modelling**  
Prince Faisal Center for Dead Sea, Environmental and Energy Research, Jordan, 2007.

## MEMBERSHIPS

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- Member of the Jordanian Engineers Association since 2004.
- Member of several committees at university and departmental levels (e.g. the ABET committee, Department Representative at the Faculty Committee, syllabus committee and others).

## PUBLICATIONS

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- **Extreme floods in Central Jordan: Frequency analysis**  
Tarawneh, Z., Hadadin, N. and Tarawneh, E. Extreme floods in Central Jordan: Frequency analysis, Italian Journal of Engineering Geology and Environment. DOI: 10.4408/IJEGE.2020-01.O-02, 2020.
- **A pre-calibration approach to select optimum inputs for hydrological models in data-scarce regions.**  
Tarawneh, E., Bridge, J., and Macdonald, N.: A pre-calibration approach to select optimum inputs for hydrological models in data-scarce regions, Hydrol. Earth Syst. Sci., 20, 4391–4407, <https://doi.org/10.5194/hess-20-4391-2016>, 2016.
- **Assessment of Sediment Yield for Wala Dam Catchment Area in Jordan**  
Ijam, A.Z. and Tarawneh, E.R., Assessment of sediment yield for Wala dam catchment area in Jordan. European Water 38: 43-58, 2012.
- **Rainfall trend analysis by Mann-Kendall Test in Syria**  
Al Shogoor, S., Alrawad, R., and Tarawneh, E., Rainfall trend analysis by Mann-Kendall Test in Syria. The Arab World Geographer 25.4 (2022).

## REFERENCE

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- **Prof. Abbas Ijam - Mutah University**  
Professor in Civil and Environmental Engineering (Former MSc Supervisor)  
[azijam@yahoo.com](mailto:azijam@yahoo.com)
- **Dr Jonathan Bridge - Sheffield Hallam University**  
Senior Lecturer in Physical Geography  
[J.W.bridge@shu.ac.uk](mailto:J.W.bridge@shu.ac.uk)