

CURRICULUM VITAE

Jihan Mahmood Qasim

(July 2026)

College of Engineering

University of Duhok

Personal Info

Name	Jihan Mahmood Qasim
Place of birth	Duhok, Kurdistan, Iraq
Marital Status	Married / Mother of one child
E-mail	jihan.mahmood@uod.ac

Languages

- Kurdish (Mother tongue)
- Arabic (Fluent)
- English (Advanced)

Academic Qualifications

Assistant Professor: Water Resources Engineering Department, College of Engineering, University of Duhok, 21st June 2023.

Lecturer: Water Resources Engineering Department, College of Engineering, University of Duhok, 30th October 2016.

Assistant Lecturer: Water Resources Engineering Department, College of Engineering, University of Duhok, 6th June 2012.

Degrees Awarded

PhD student: Hydraulic Engineering, University of Duhok, 2023-present.

M.Sc. : Hydraulic Engineering, University of Sulaimani, 2010-2012 (average mark %81.50; ranking not applicable).

B.Sc. : Water Resources Engineering, University of Duhok, 2003-2007 (average mark %72.943; ranked the first on the department and College of Engineering).

Membership in Professional Societies

Kurdistan Engineers Union
Kurdistan Teachers Union

Computing Skills

- Programming (MATLAB, Fortran, Basic, C++).
- Design (AutoCAD, AutoCAD Civil 3D)
- Hydraulics (SPH, HEC-RAS, ADH, WinFlume, HY-8)
- Statistics (SPSS)
- Hydrology (Hyfran, Surfer, GISArcMap)

Key career responsibilities:

- Teaching (Undergraduate and graduate levels)
- Research
- Students' tutorship
- Students' internship
- Supervision of the Senior Year Engineering Projects
- Holding seminars and workshops at the department and college level.

Research Interests

- Open-Channel Hydraulics
- Hydraulic Structures
- Numerical Simulation
- Flood Inundation

Teaching Experience

1. Optimization (Operations Research)
2. Computer Application (MATLAB)
3. Computer Programming Using Fortran
4. Descriptive Geometry
5. Engineering Analysis
6. Numerical Methods with MATLAB
7. Open Channel Hydraulics
8. Water Resources Economy and Management
9. Advanced Mathematics (Graduate level)
10. Calculus

Honors

Ranked first at the college level upon completing my B.Sc. degree in 2007; I was honored by many governmental organizations, including:

- Kurdistan Prime Minister
- Iraqi Deputy Prime Minister
- Ministry of Higher Education and Scientific Research
- Directorate of Duhok Building and Residency
- Directorate of Irrigation and Dams
- Directorate of Structural Planning in Duhok City
- Kurdistan Engineers Union
- Kurdistan Students Union
- Cultural Relations Office at the University of Duhok.

Publications

1. **Jihan M. Qasim** (2023), The Overshot Gate as a Flow-Measuring Device - *ARO*, 11(1) pp. 143-148. DOI: <https://doi.org/10.14500/aro.11170>
2. Shaker A. Jalil, Sarhan A. Sarhan, **Jihan M. Qasim**, and Bshkoj S. Hussein (2019), Properties of Flow through and over Gravel Basket Weir, *Journal of University of Babylon for Engineering Sciences*, 27(3) pp. 127-136. <https://www.journalofbabylon.com/index.php/JUBES/article/view/2503>
3. Shaker A. Jalil, Sarhan A. Sarhan, Bshkoj S. Hussein, and **Jihan M. Qasim** (2019), Effect of Gravel Size and Weir Height on Flow Properties of Gabions, *Journal of University of Babylon for Engineering Sciences*, 27(2) pp. 214-222. <https://doi.org/10.29196/jubes.v27i2.2340>
4. Shaker A. Jalil, Sarhan A. Sarhan and **Jihan M. Qasim** (2018), Hydraulic Characteristics of Flow over and under Semi-Cylindrical Structure, *Journal of Duhok University*, 21(2) pp. 45-58. <https://journal.uod.ac/index.php/uodjournal/article/view/277>
5. Shaker A. Jalil and **Jihan M. Qasim** (2016), Numerical Modelling of Flow over Single-Step Broad-Crested Weir Using FLOW-3D and HEC-RAS, *PolyTechnic General Sciences Journal, Erbil Polytechnic University*, 6(3) pp. 435-448. https://www.academia.edu/38498541/Jalil_and_Qasim_2016_Numerical_Modelling_of_Flow_over_Single_Step_Broad_Crested_Weir_pdf
6. **Jihan M. Qasim** (2013), Laboratory and HEC-RAS Simulations of a Single-Step Weir, *ARNP Journal of Engineering and Applied Sciences*, 8(12), pp. 1005-1011. http://www.arnpjournals.com/jeas/research_papers/rp_2013/jeas_1213_984.pdf
7. Jowhar R. Mohammed and **Jihan M. Qasim** (2012), Comparison of One-Dimensional HEC-RAS with Two-Dimensional ADH for Flow over Trapezoidal Profile Weirs, *Caspian Journal of Applied Sciences Research*, 1(6), pp. 1-12. https://www.researchgate.net/publication/267209275_Comparison_of_One-Dimensional_HEC-RAS_with_Two-Dimensional_ADH_for_Flow_over_Trapezoidal_Profile_Weirs

Professional Profiles

Academic profile: [University of Duhok \(UoD\)](#)

Google Scholar: <https://scholar.google.co.uk/citations?hl=en&user=3IfDHcgAAAAJ>

ORCID Record: <https://orcid.org/my-orcid?orcid=0000-0001-9240-6363>

Research Gate: https://www.researchgate.net/profile/Jihan_Qasim

Linked in: <https://www.linkedin.com/in/jihan-shingali-50730760/>