

Fariborz Mohammadi,
Assistant Professor of Irrigation and Drainage Engineering
University of Hormozgan, Bandar Abbas, Iran.
Ph.D. Degree in Irrigation and Drainage Engineering; Shahid Chamran University of Ahvaz,
Iran; 2013.

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□ [Academic Profile](#)

Professional Experience and Qualification

2013-2024

- Extensive and diverse Research and Teaching experience in Disposal of desalination wastewater, Water/Wastewater Network Design, Desalination Environmental Impact Assessment, Techno-Economic Analysis of Desalination Projects (SWRO&BWRO), Hydrodynamic Analysis of Effluent Discharge and Evolution and characterization of urban stormwater network.
- Supervisor of MSc. students on Desalination Brine Management, Urban Drainage Resilience, Hydraulic Structure Modeling, and Soil Salinity prediction using HYDRUS-1D/FLOW-3D simulations fields.
- Key Speaker at National Water & Environment Winter School *Ministry of Energy, Iran, Hormozgan Province, winter 2024.*

Qualification and Responsibility

- Professional Roles & Leadership:
- Faculty Member, University of Hormozgan, 2014–Present

- Administrative Leadership:
- University-Industry Collaboration

- Director of Industry Relations Office, University of Hormozgan, 2021–2024.

Research Institute Management:

- Deputy Director, Hormoz Research Institute–University of Hormozgan 2017–2020.

Academic Department Leadership:

- Course director of Water Engineering Department, Minab Higher Education Complex-University of Hormozgan, 2014–2017.

University Governance:

Member of the Technical Council, University of Hormozgan, 2022–Present

- Professional Certification:
- • Court-Certified Expert in Natural Resources, Iranian Association of Official Judicial Experts, 2024 (Authorization Code: :19557)

Provincial Committees

- Government Advisory
- Research Council Member | Hormozgan Regional Water Co., 2023–Present

- **Civil Engineering Consultant**, | Bandar Abbas Municipality | 2017–2019

Executive Leadership

- Director of Studies & Shareholder, Aban Khalij Fars Consulting Engineers, 2023–Present
- Leader of Technical teams on "Asia Water Development Engineering Co.'s Desalination project (1MCM/day) in western Bandar Abbas, delivering end-to-end solutions from demand modeling and optimal delivery point selection using WEAP/GIS to investment analysis and tiered pricing frameworks, while ensuring environmental compliance.

Technical Expertise & Professional Practice

Desalination & Brine Management

- **Technical-Economic Analyst**
Evaluated 3 existing plants for Persian Gulf Mining & Metal Special Economic Zone (PGSEZ), 2021-2024.
- **Environmental Impact Research Specialist** 5-year study on "Investigating the effects of brackish water desalination wastewater disposal on groundwater (Case study: Sarkhun Plain - Hormozgan Province, Iran)", 2016-2021.
- **Academic Supervisor**

Supervised 4 MSc theses on brine disposal optimization Consultant in Project Control & Contract Management

- Persian Gulf Mining & Metal Special Economic Zone (PGSEZ), 2023–Present.

Urban Stormwater Management

- Lead Designer, Bandar Abbas Stormwater Network, Iran, 2017-2019
- Project Manager, Andimeshk Stormwater Network, Iran, 2012-2013
- Lead Designer, 11 industrial town Stormwater Network, Iran, 2010-2011.

Wastewater Reuse Expert

- Wastewater Reuse Project for Agricultural Development
- Technical Consultant, treated wastewater scheme for olive farms, Qom province, Iran, 2006-2007.

Publications

Articles (5 Articles Relevant to the Course from 15 published Articles) 2006-2024

- 1- Investigation about maximum rise of trajectory of 30° and 45° inclined dense jets. Nature and Science 2012;10(11).
- 2- Flood susceptibility mapping using machine learning and remote sensing data in the Southern Karun Basin, Iran. Appl Geomat 16, 731–750 (2024). <https://doi.org/10.1007/s12518-024-00582-7>. (2020).
- 3- Comprehensive Risk Assessment of Sarkhoon Aquifer Salinization Using a Combination of Machine Learning Models. Journal of Ecohydrology, 7(1), 147-163. doi: 10.22059/ije.2020.287185.1197 (2020- in Farsi)

- 4- The effect of dam construction on the hydrological indicators of Shamil and Nyan dams in Hormozgan province. *Journal of Ecohydrology*, 10(2), 263-274. doi: 10.22059/ije.2023.354193.1709. (2023).
- 5- Integrated modelling for mapping spatial sources of dust in central Asia - An important dust source in the global atmospheric system. *Atmospheric Pollution Research* 12 (9), 101173. DOI: 10.1016/j.apr.2021.101173. (2021)

Conference Papers (5 Articles Relevant to the Course from 15 published Articles)

- 1- Numerical Simulation of Flow Dilution in Dense Currents over Sloped Surfaces with Cubic Obstacles. Tabriz university. Iran. (2017)
- 2- Flow-3D Simulation of T-Intake Hydraulics in Sibili Channel. 10th Iranian Hydraulics Conference. Iran. (2011)
- 3- Identifying the spatial relationship between land use and floodplains in the end basin of Great Karun). 17th National Conference on Watershed Management Sciences and Engineering of Iran (Watershed Management & Sustainable Food Security). (2021)
- 4- Detecting Natural Water Bodies and Flooding Areas Using Sentinel-1 Satellite-Radar Data. 4th International Congress of Developing Agriculture, Natural Resources, Environment and Tourism of Iran. (2019)
- 5- Groundwater Rise Causes in Dash-Abbas Plain. 1st National Agricultural Development Conference. Ahvaz, Iran. (2015)