

Curriculum Vitae

Emad Mashayekh

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EDUCATION

M.Sc. in Water Resources Engineering & Management, Department of Civil Engineering, 2018-2022
Isfahan University of Technology (IUT), Isfahan, Iran.

B.Sc. in Civil Engineering, Isfahan University of Technology, Isfahan, Iran. 2014-2018

Diploma in Physics and Mathematics discipline, Emam Hosein High School, Yazd, Iran. 2010-2014

AWARDS AND RECOGNITIONS

Ranked 1st among 14 master students, Department of Civil Engineering, Isfahan University of Technology 2020

Best Conference Paper, 3rd Iranian National Conference on Hydrology, Tabriz, Iran 2019

Exempted from MSc entrance exam of Isfahan University of Technology 2018

RESEARCH & TEACHING EXPERIENCE

Master Thesis

Title: Estimating evaporative water loss from agricultural reservoirs and suppression efficiency of floating elements using mechanistic modeling and remote sensing:

- Developing a physically based model
- Running a field scale experiment to evaluate model performance
- Identifying the extent of seasonal agricultural ponds.
- Estimating evaporative losses using meteorological data.

Teaching Assistant

Numerical methods in water engineering, Spring 2021.

Fundamentals of solute transport in porous media, Spring 2021.

Research Assistant

Water and Wastewater Research Institute, Isfahan University of Technology, Isfahan, Iran. 2018-2019:

- Handling hydrological datasets as input of SWAT model
- Monitoring and mapping drought

Internship

Isfahan Province Water and Wastewater Company, Ministry of Energy, Isfahan, Iran. Summer 2018.

RESEARCH INTERESTS

Evaporation and Evapotranspiration

Land-atmosphere Interaction

Droughts and Heatwaves

Hydrometeorology

Surface Hydrology

Data Assimilation

Machine Learning

Remote Sensing

PUBLICATIONS

Bakhtiar, M., Aminzadeh, M., Taheriyoun, M., Or, D., & **Mashayekh, E.** (2022) "Effects of floating covers used for evaporation suppression on reservoir physical, chemical, and biological water quality", *Ecohydrology*, e2470. <https://doi.org/10.1002/eco.2470>.

Conference:

Bakhtiar, M., Aminzadeh, M., Taheriyoun, M., & **Mashayekh, E.** (2021) "Modeling effect of evaporation suppression floating covers on Dissolved Oxygen in water reservoirs", 1st Iranian National Conference on Water Quality Management & 3rd Iranian National Conference on Water Consumption Management, University of Tehran, Tehran, Iran.

Mashayekh, E., Aminzadeh, M., Safavi, H.R. (2019) "Effects of evaporation suppression floating covers on the energy balance of water reservoirs", 3rd Iranian National Conference on Hydrology, University of Tabriz, Iran