

Curriculum Vitae

Javad Zahiri

Assistant professor

Faculty of Water Engineering

Agricultural Sciences and Natural Resources University of Khuzestan

Born in Khozestan, Iran on 12.11.1982

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Academic qualifications

- 2005, B.Sc. in Water Science Engineering, Chamran University of Ahvaz, Iran.
- 2007, M.Sc. in Hydraulic Structures, Chmaran University of Ahvaz, Iran.
- 2012 Ph.D. in Hydraulic Structures, Shahid Chamran University of Ahvaz, Iran.

Research area of interest

Numerical Modelling
 Physical Modelling
 River Engineering
 Neural Networking
 MCDM

Software skills

Fluent
 Flow3D
 HEC-RAS
 NeuralSolution
 SPSS

Languages

English	Good
Farsi	Fluent
Arabic	Good

Implementations as Job

Associate Professor, *Department of Water Engineering, Agricultural Sciences and Natural Resources University of Khuzestan, Ahwaz, Iran. (2012-until now)*

Member of SAZAB consulting Eng. Co., Irrigation & River Engineering Affairs. (Feb 2008-Jun 2010)

Publications

- Mehrdad Karimzadeh, Javad Zahiri & Valiollah Nobakht (2023) Efficiency of monolayers in evaporation suppression from water surface considering meteorological parameters, *Environmental Science and Pollution Research*, Environmental Science and Pollution Research
- cheraghi, M., Zahiri, J., Moradi Sabzkouhi, A., Moradi, S. (2023). 'Evaluation of the water quality of Shorbarik River based on quality indicators of surface water in Haftkal city, Khuzestan province', *Journal of Environmental Science Studies*, 8(4), pp. 7587-7594. doi: 10.22034/jess.2023.383239.1964
- Karimi Fard, S., Zahiri, J., Jafari, A. (2023). 'Scour Control around the Inclined Bridge Pier Using Collar', *Irrigation and Water Engineering*, 13(13), pp. 61-77. doi: 10.22125/iwe.2022.352311.1654
- Eskanadri, M., Zahiri, J., Naserin, A., Roshanfekar, A. (2023). 'Modeling of seepage in rockfill dams using a physical model', *Advanced Technologies in Water Efficiency*, 3(1), pp. 61-78. doi: 10.22126/atwe.2023.9135.1053
- Aziziye, F., Zahiri, J., Moradi, A., Zamani Fekri, M. (2023). 'Application of pump as turbine in extracting surplus energy of water transmission lines', *Advanced Technologies in Water Efficiency*, 3(2), pp. 91-106. doi: 10.22126/atwe.2023.9476.1058
- Zahiri, J., Karimzadeh, M. (2023). 'Evaporation Suppression from the Water Surface Using Monolayers', *Irrigation and Water Engineering*, 13(3), pp. 268-284. doi: 10.22125/iwe.2023.168324
- Saeedeh Naseri, Javad Zahiri, Ahmad Jafari (2022) Using the combination of genetic algorithm and artificial neural network to estimate scour depth around bridge foundations. *Advanced Technologies in Water Efficiency*, 2(3), 1-13.
- Shahsavarizadeh, A., Zahiri, J., Jafari. (2022) Experimental study of Hydrodynamic Performance of Floating Oscillating Water Column as Wave Energy Convertors, *Journal of Hydraulics*, 17(3), pp. 105-120. doi: 10.30482/jhyd.2022.316262.1565
- Zahiri, J., Jafari, A. (2022). 'Design and Construction of Electronic Irrigation Canal Gate', *Irrigation and Water Engineering*, 13(1), pp. 191-205. doi: 10.22125/iwe.2022.158524
- Nezaratian, H., Zahiri, J., Peykani, M.F., Haghiabi, A. and Parsaie, A., 2021. A genetic algorithm-based support vector machine to estimate the transverse mixing coefficient in streams. *Water Quality Research Journal*, 56(3), pp.127-142.
- Zahiri, J., Mollae, Z. (2021). 'Estimation of Suspended Sediment Concentration Using Remote Sensing Technique and M5 Model Tree', *Irrigation and Water Engineering*, 12(1), pp. 138-150. doi: 10.22125/iwe.2021.138260
- Zahiri, J., Ashnavar, M. (2021). 'River Flow Simulation by Integrating Numerical Methods and Satellite Images', *Journal of Civil and Environmental Engineering*, 51.2(103), pp. 63-72. doi: 10.22034/jcee.2019.9090
- Zahiri, J., Moradi Sabzkouhi, A. (2020). 'Uncertainty and Accuracy Analysis of Longitudinal Dispersion Coefficient Estimation Methods in Rivers.', *Water and Soil*, 34(4), pp. 813-825. doi: 10.22067/jsw.v34i4.85364
- Zahiri, J., Mollae, Z. & Ansari, M.R. Estimation of Suspended Sediment Concentration by M5 Model Tree Based on Hydrological and Moderate Resolution Imaging Spectroradiometer (MODIS) Data. *Water Resour Manage* 34, 3725–3737 (2020). <https://doi.org/10.1007/s11269-020-02577-6>
- Zahiri, J. and Nezaratian, H., 2020. Estimation of transverse mixing coefficient in streams using M5, MARS, GA, and PSO approaches. *Environmental Science and Pollution Research*, 27(13), pp.14553-14566.
- Nezaratian H, Zahiri J. & Kashefipour S. M. (2018). Sensitivity Analysis of Empirical and Data-Driven models on Longitudinal Dispersion Coefficient in Streams, *Environmental Processes*. Volume 5, Issue 4, pp 833–858.
- Kashefipour, S.M, Mostofizadeh, S. and Zahiri, J. (2011). Analyzing the Effect of Numerical Solution Method and Empirical Coefficients on the Accuracy Predictions of the ADE for BOD Modeling in Riverine Basins. *International Journal of Food, Agriculture & Environment (JFAE)*, Volume 9, Issue 3&4, pp 1074-1077.

- Kashefipour S. M. and Zahiri J. (2010). The Effect of Empirical Equations in the ADE on Sediment Transport modelling. World Applied Science Journal. Volume 11, Issue 8, pp 1015-1024.
- Bakhtiari M, Kashefipour S. M, Ghomeshi M, & Zahiri J. (2010). Effect of Geometric Parameters of Spur Dike and Depth-Placed Rrprap on its Failure Threshold in 90 Degree Bend, Ecology, Environment and Conservation, Volume 18, Issue 3, pp 479-484.
- Kashefipour S. M. & Zahiri J. (2010). The Effect of Empirical Equations in the ADE on Sediment Transport modelling. World Applied Science Journal. (under review)
- Zahiri J. & Kashefipour S.M. (2010). Generalized Neural Networks for Prediction of Equilibrium Scour Depth Around Bridge Piers. Water Engineering Journal, (under review)
- Roshanfekar A., Zahiri J. & Kashefipour S.M. (2010). Presenting Some Equations for Calculating the Non-Darcy Flow Coefficients in Rockfills. Water and Soil Journal, Volume 24, Issue 5. (in persian)
- Zahiri J. & Kashefipour S. M. (2010). Consideration the Effect of Various Parameters on Sediment Entrance to lateral Intake with ANOVA. 8th International River Engineering Conference, Ahvaz, Iran.
- Golrokh I. & Zahiri J. (2010). Comparative Calculation of Karoon River Bed-Load Using Wang-Parker Equation. 8th International River Engineering Conference, Ahvaz, Iran.
- Zahiri J. & Kashefipour S. M. (2009). Predicting Longitudinal Dispersion Coefficient in Natural Streams by Fuzzy Logic. 8th International Congress on Civil Engineering, Shiraz, Iran.
- Mostofi SH., Kashefipour S. M. & Zahiri J. (2009). The Effect of Source Term on ADE Precision for Suspended Load Prediction. 1st National Conference on Utilization Integrated Managment of Water Resources, Kerman, Iran
- Zahiri J. & Kashefipour S. M. (2008). Modelling Dynamic River Bed Changes with Numerical Modelling . 7th Hydraulic Conference, Tehran, Iran.
- Zahiri J. & Kashefipour S. M. (2008). Verification of Fall Velocity and Longitudinal Dispersion Coefficient Formulas in ADE Equation , 3rd Iran Water Resources Management Conference, Tabriz, Iran, Oct 2008.
- Zahiri J. & Ramazani Y. (2008). Predicting Longitudinal Dispersion Coefficient in Natural Streams by Neural Network. 2nd Environment Engineering Congress, Tehran, Iran.
- Zahiri J. & Kashefipour S. M. (2008). Verification of Sediment Transport Formulas with ADE Equation. 2nd Environment Engineering Congress, Tehran, Iran.
- Zahiri J. & Jafari A. (2007). Investigation Morphological Changes in Jarahi River. 7th International River Engineering Conference, Ahvaz, Iran.
- Zahiri A.R., Anbari M. & Zahiri J. (2005). Discharge Prediction in Compound Channel with Neural Network. 5th Hydraulic Conference, kerman, Iran.

Research Projects

Zahiri, J, Moradi, A & Nobakht, V. (2023). *Evaporation Reduction from Water Surface by Using Composite Plates without Reduction in Water-Oxygen*. Academic Center for Education, Culture and Research (ACECR).

Zahiri J. & Jafari A. (2019). *Design and Fabrication of Electronic Irrigation Canal Gate*. Khozestan Water and Power Authority Co. (KWPA).

Shafei M., Zahiri J & Kashefipour S.M. (2010). *Riprap Stability Around Spurs in River bends*. Khozestan Water and Power Authority Co.(KWPA).

Kashefipour S.M. & Zahiri J. (2008). *1D Numerical Modeling of Sediment Transport and Bed Changes in Rivers (Case Study: Karoon River)*. Khozestan Water and Power Authority Co. (KWPA)

Instrument Skills

ADV (Acoustic Doppler Velocimeter)

LDA (Laser Doppler Anemometry)

Bed Profiler

Mastersizer (Particle Size Analyzer)