

Shervin Jamshidi

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EDUCATION

PhD/ Environmental Eng. - Water Resources Eng.,

2012- 2016

University of Tehran, Iran

Dissertation: *Surface Water Quality Management Using Urban Reclaimed Water Allocation*

MSc/ Civil Eng. - Water and Wastewater Eng.,

2009- 2011

Power and Water University of Technology, Iran

Thesis: *Performance Evaluation of Anaerobic Baffled Reactor (ABR) Treating Municipal Wastewater in Pilot Scale*

BSc/ Civil Eng. - Water Resources,

2004- 2008

Isfahan University of Technology, Iran

PROFESSIONAL EXPERIENCE

UNIVERSITY OF ISFAHAN, Iran

2018- Present

Assistant Professor

Research topics and interests:

- Water quality management and waste load allocation,
- Environmental management, ethics and governance,
- Industrial and municipal wastewater treatment.

Research projects:

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|--|------------------------|
| ➤ Pollution management and control in Khur-Musa | <i>Ongoing</i> |
| ➤ Environmental system analysis in transboundary rivers (Case study: Zab basin), | <i>Completed 2024.</i> |
| ➤ Technological solutions for rural wastewater treatment in Hamadan Province, | <i>Completed 2024.</i> |
| ➤ Waste load allocation by water quality trading (Case study: Varamin plain), | <i>Completed 2023.</i> |
| ➤ Developing an integrated SEA method for BMP assessment (Case study: Zrebar Basin), | <i>Completed 2023.</i> |
| ➤ Upgrading waste stabilization ponds (Case study: Delijan WWTP), | <i>Completed 2022.</i> |
| ➤ Integrated municipal and rural solid waste management in Isfahan Province, | <i>Completed 2022.</i> |
| ➤ Roadmapping basin management and operations (Case study: Atrak basin), | <i>Completed 2022.</i> |
| ➤ Grey water evaluation of paddy fields (Case study: Guilan province), | <i>Completed 2021.</i> |
| ➤ Municipal sludge reduction (Case study: Sharekord and Borujen WWTPs), | <i>Completed 2021.</i> |
| ➤ Assessment of public water literacy in national scale, | <i>Completed 2020.</i> |
| ➤ Medical solid waste management and landfill design (Case study: Isfahan), | <i>Completed 2020.</i> |
| ➤ Fish farm discharge management in rivers (Case study: Kabkian river), | <i>Completed 2019.</i> |

Teaching courses:

Graduate program

- 1) Water quality management;
- 2) Sustainable development and environmental management;
- 3) Fundamentals of advection-diffusion and pollution modelling;
- 4) Advanced hydrology,

Undergraduate program

- 1) Environmental engineering;
- 2) Water resource Engineering;
- 3) Principles of water and wastewater engineering;
- 4) Industrial wastewater treatment

Supervisor of featured thesis:

- **Fowzi MM.** Analyzing Municipal Composts for Quantifying and Identifying Microplastics, *MSc thesis, University of Isfahan, Iran, 2025.*
- **Ahmadi E.** Evaluation of Sustainability Indices for Municipal Solid Waste Management (Case study: Isfahan Province), *MSc thesis, University of Isfahan, Iran, 2025.*
- **Tafazzoli P.** Grey water and cumulative environmental impact assessment of fish farms, *MSc thesis, University of Isfahan, Iran, 2024.*
- **Arastou K.** Grey water footprint and quality evaluation of industrial wastewater by multiple pollutants (Case study: Jey Industrial Park's Wastewater treatment plant), *MSc thesis, University of Isfahan, Iran, 2024.*
- **Hosseinzadeh A.** Performance evaluation of conventional municipal wastewater treatment plants in central Iran based on grey water footprint, *MSc thesis, Shahid Chamran University, Iran, 2024.*
- **Souri MA.** Waste load allocation based on water quality trading using groundwater modeling in Varamin study area, *MSc thesis, University of Isfahan, Iran, 2023.*
- **Naderi A.** Developing an Integrated Methodology for Strategic Environmental Assessment of Best Management Practices (Case Study: Zrebar Lake Basin), *MSc thesis, University of Isfahan, Iran, 2023.*
AWARD: Top MSc researcher, College of Engineering, University of Isfahan, Iran.
- **Ghaneyan M.** Upgrading Wastewater Treatment Plants with Water-Energy-Food Nexus Perspective, *MSc thesis, University of Isfahan, Iran, 2022.*
- **Roudbari Vaez M.** Grey Water Footprint Determination in Paddy Field (Case Study: a Paddy Field of Guilan Province), *MSc thesis, University of Isfahan, Iran, 2022.*

Management experiences:

- Dean of research affairs, Department of Civil Engineering, **since 2023.**
- Dean of international affairs, Department of Civil Engineering, **since 2024.**
- Executive secretary of 5th Iran Water and Wastewater Science and Engineering Congress, Isfahan, Iran, **2024.**

WATER RESEARCH INSTITUTE, Ministry of Energy, Iran

2010- 2018

Research Associate & Assistant Professor

Research projects:

- National road-mapping of wastewater treatment and desalination technologies, *Completed 2018.*
- Standardization and labelling water efficiency in Iran, *Completed 2016.*
- Optimization of sludge incineration and disposal (Case study: Arak WWTP), *Completed 2016.*
- Improving drinking water extraction from Ardabil aquifer, *Completed 2016.*
- Performance evaluation and upgrading domestic WWTPs, *Completed 2015.*

SCHOLARSHIPS, CERTIFICATES & ACCOLADES

- Co-researcher of **Top research project**, University of Isfahan, Iran, **2023.**
- Co-supervisor of **Top thesis** in accordance with industrial and social demands, University of Isfahan, Iran, **2022.**
- Awarded **Top senior researcher** at Water Research Institute (WRI), Ministry of Energy, Iran, **2017.**
- Awarded **Top senior researcher** at University of Tehran, Iran, **2016**
- Awarded **Top trainer** at Applied Science University in Alborz Province, Iran, **2016.**
- DAAD full scholarship for: “*Water & Environment in times of global change*” at Ostfalia Hochschule für angewandte Wissenschaften, Suderburger, Germany, **2015.**
- DAAD full scholarship for: “*Integrated Land Use Systems*” at Freiburg University, Germany, **2017.**
- Brighton University scholarship for: “*Water Initiative in South Asia (WISA)*”, **2018.**
- Online course: “*Policy Coherence and System Thinking for Sustainable Development*”, United Nations, **2023.**
- Online course: “*Introduction to Sustainable Development in Practice*”, United Nations, **2023.**
- Online course: “*Indicators for an Inclusive Green Economy*”, United Nations, **2023.**
- Online course: “*Green Fiscal Policy*”, United Nations, **2023.**

FEATURED PUBLICATIONS

- Souri MA., **Jamshidi S.**, Kardan Moghaddam H. (2025), [Multi-Pollutant Water Quality Trading: A Conditional Approach for Groundwater Quality Management](#), *International Journal of Environmental Research* 19(2), 1-20.
- Ansoorge L, Vaca-Jimenez S.D., Gerbens-Leenes W., Aldaya M.M., **Jamshidi S.**, Arastou K., Wohler L. (2024), [Commentary on the article "Overestimation of water pressure by traditional water footprint: Method revision and application" by Liu et al. \(DOI 10.1016/j.ecolind.2024.112225\)](#), *Ecological Indicators* 167, 112617.
- **Jamshidi S.**, Dehnavi A., Vaez Roudbari M., Yazdani M. (2024), [An Integrated Approach through Controlled Experiment and LCIA to Evaluate Water Quality and Ecological Impacts of Irrigated Paddy Rice](#), *Environmental Science and Pollution Research*, 31, 45264–45279.
- Tafazzoli P, **Jamshidi S.** (2024), [Environment-food nexus in trout ponds: a developed index by combining grey water footprint and life cycle assessment](#), *International Journal of Environmental Science and Technology*, 21, 8885-8900.
- **Jamshidi S.**, Farsimadan M., Mohammadi H. (2024), [A Holistic Approach for Performance Evaluation of Wastewater Treatment Plants: Integrating Grey Water Footprint and Life Cycle Impact Assessment](#), *Water Science and Technology*, 89(7), 1741-1756.
- Ostad Mohammadi M., Niksokhan M.H., **Jamshidi S.** (2024), [Optimal-fair waste load allocation of river system based on Rawls theory](#), *Environmental Energy and Economic Research*, 8(1), 1-14.
- **Jamshidi S.**, Yazdian H. (2024), [Viral Risk Index, A Classification Approach for Safe Wastewater Reuse in Developing Countries During COVID-19 and Similar Epidemics](#), *Environmental Energy and Economic Research* 8(3).
- Babaeian F., Delavar M., Morid S., **Jamshidi S.** (2023), [Designing climate change dynamic adaptive policy pathways for agricultural water management using a socio-hydrological modeling approach](#), *Journal of Hydrology*, 627, 130398.
- Souri MA., **Jamshidi S.**, Kardan Moghaddam H. (2023), [Waste load allocation by integrated GMS Modeling and economic evaluation for nitrate reduction in Varamin aquifer](#), *AQUA*, 72(7), 1309-1319.
- Vaez Roudbari M., Dehnavi A., **Jamshidi S.**, Yazdani M. (2023), [A Multi-Pollutant Pilot Study to Evaluate the Grey Water Footprint of Irrigated Paddy Rice](#), *Agricultural Water Management*, 282, 108291.
- **Jamshidi S.**, Naderi A. (2023), [A quantitative approach on environment-food nexus: integrated modeling and indices for cumulative impact assessment of farm management practices](#), *PeerJ* 11:e14816.
- **Jamshidi S.**, Imani S., Delavar M. (2022), [An Approach to Quantifying the Grey Water Footprint of Agricultural Productions in Basins with Impaired Environment](#), *Journal of Hydrology*, 606, 127458
- **Jamshidi S.**, Dehghani H. (2021), [Water Literacy Evaluation in Urban Society \(Case study: Isfahan City\)](#), *Journal of Environmental Studies*, 46(4), 555-570.
- **Jamshidi S.**, Imani S., Delavar M. (2020), [Impact Assessment of Best Management Practices \(BMPs\) on the Water Footprint of Agricultural Productions](#), *International Journal of Environmental Research* 14, 641–652.
- **Jamshidi S.** (2019), [An Approach to Develop Grey Water Footprint Accounting](#), *Ecological Indicators* 106, 105477.
- **Jamshidi S.** (2019), [Value Added Innovation in Infrastructure Systems, Lessons Learned From Wastewater Treatment Plants](#), *TQM Journal* 31(6), 1049-1063.
- **Jamshidi S.**, Niksokhan M.H., Ardestani M., Imani S. (2018), [Operation-based uncertainties in river waste load allocation and their impacts on controlling discharges](#), *Civil Engineering and Environmental Systems*, 35:1-4, 223-240.
- Kariman A.S., Salimi L., **Jamshidi S.** (2018), [Determining the Economic Value of Surface Water Quality Improvements to Trout Farmers](#), *AQUA* 67(2), 192-201.
- Imani S., Niksokhan M.H., **Jamshidi S.**, Abbaspour K.C. (2017), [Discharge permit market and farm management nexus: an approach for Eutrophication control in small basins with low-income farmers](#), *Environmental monitoring and assessment*, 189, 346.
- **Jamshidi S.**, Ardestani M., Niksokhan M.H. (2016), [A Seasonal Waste Load Allocation Policy in an Integrated Discharge Permit and Reclaimed Water Market](#), *Water Policy*, 18(1), 235-250.

- **Jamshidi S.**, Niksokhan M.H. (2016), [Multiple pollutant discharge permit markets, A challenge for wastewater treatment plants](#), *Journal of Environmental Planning and Management*, 59(8), 1438-1455.
- **Jamshidi S.**, Niksokhan M.H., Ardestani M., Jaberri H. (2015), [Enhancement of Surface Water Quality Using Trading Discharge Permits and Artificial Aeration](#), *Environmental Earth Sciences*, 74(9), 6613–6623.
- Feizi Ashtiani E., Niksokhan M.H., **Jamshidi S.** (2015), [Equitable Fund Allocation, an Economical Approach for Sustainable Waste Load Allocation](#), *Environmental Monitoring and Assessment*, 187(8), 522.
- **Jamshidi S.**, Niksokhan M.H., Ardestani M. (2014), [Surface Water Quality Management Using Integrated Discharge Permit and Reclaimed Water Market](#), *Water Science and Technology*, 70(5), 917-924
- Gholikandi, G.B., Sadrzadeh, M., **Jamshidi, S.**, Ebrahimi, M. (2013), [Water Resource Management in Ancient Iran with Emphasis on Technological Approaches](#), *Water Science and Technology: Water Supply*, 13(3), 582-589.

Book Chapter

- Arastou K., Dehnavi A., **Jamshidi S.** (2024), [Industrial Grey Water Footprint: Principles, Evaluation Method, and Challenges](#), in book entitled “*Sustainability and Water Footprint: Industry-specific Assessments and Recommendations*”, Springer.
- **Jamshidi S.**, Naderi A. (2023), [Wetland Restoration Policies and the Sustainability of Agricultural Productions, Lessons Learnt from Zrebar Lake, Iran](#), in book entitled “*Ecorestoration and Sustainability*”, Wiley-scrivener.
- **Jamshidi (2021)**, [Grey Water Footprint Accounting, Challenges and Problem Solving](#), in book entitled “*Agroecological Footprints Management for Sustainable Food System*”, Springer.

MORE PUBLICATIONS

- Tafazzoli P, **Jamshidi S.** (2024), Environmental impacts assessment of Iranian trout farms using the life cycle impact coefficients under uncertainties, *Water and Irrigation Management*, in press (in Persian).
- Hashempour F, Pardakhti A., **Jamshidi S.** (2024), Cumulative Environmental Impacts of Desalination Plants Based on ReCiPe Indices Used in Life Cycle Assessment, *Journal of Water & Wastewater Science and Engineering*, 9(1), 19-31 (in Persian).
- Dehnavi A., Nadi S., **Jamshidi S.** (2024), Spatial Assessment of Risky and Safe Sites for Solid Waste Landfills (Case study: Isfahan province), *Journal of Civil and Environmental Engineering* (in Persian).
- **Jamshidi S.**, Dehnavi A. (2024), Grey water quantity and quality assessment (Case study: Isfahan University Dormitories), *Journal of Water & Wastewater Science and Engineering*, 8(4), 11-21 (in Persian).
- Ostad Mohammadi M., Niksokhan M.H., **Jamshidi S.** (2024), Optimal-fair waste load allocation of river system based on Rawls theory, *Environmental Energy and Economic Research*, 8(1), 1-14.
- Karimpour B., Dehnavi A., **Jamshidi S.** (2023), Prioritization of Wastewater Treatment Options in Rural Areas in Various Conditions According to Two Scientific and Executive Perspectives, *Journal of Water and Wastewater*, 34(3), 57-71 (in Persian).
- **Jamshidi S.**, Moradkhani M., Zarei MA., Mamaghani Nejad M. (2023), Performance Evaluation and Comparison of Facultative Ponds in Series and Parallel for Domestic Wastewater Treatment (Case study: Delijan WWTP), *Journal of Civil and Environmental Engineering*, 52(3), 10-22 (in Persian).
- Yazdian H., **Jamshidi S.** (2021), Impact of Coronavirus Spread Prevention Actions on Sewage Quantity and Quality, *Journal of Environmental Health Engineering* 8(4), 343-357 (in Persian).
- **Jamshidi S.**, Dehghani H. (2021), Water Literacy Evaluation in Urban Society (Case study: Isfahan City), *Journal of Environmental Studies*, 46(4), 555-570 (in Persian).
- **Jamshidi S.** (2021), Requirements and Roadmap of Smart Water Distribution Network, *Journal of Water & Wastewater Science and Engineering* 5(4), 4-15 (in Persian).
- Heidarpour M., **Jamshidi S.** (2019), Determining total allowable pollution and waste load allocation in rivers regarding seasonal variations, a framework for local multi-parameter water quality standardization and monitoring, *Journal of Environmental Studies* 44(3), 519-531 (in Persian).
- **Jamshidi S.**, Kariman A.S., Meshkati M.H., Mehrabi Z. (2018), Evaluation of River Water Quality and Indices for Fish Farm Development (Case study: Kabkian River), *Journal of Environmental Health Engineering*, 2018; 5(4), 375-388 (in Persian).

- Khalili A.R., **Jamshidi S.**, Khalesidoust M., Vesali Naseh M.R., Akbarzadeh A., Mamaghani nejad M., Mohebbi M. Sameni F. (2017), Evaluation of Sewage Sludge for Incineration (Case study: Arak Wastewater Treatment Plant), *Environmental Energy and Economics Research*, 1(3), 249-258.
- **Jamshidi S.**, Niksokhan M.H. (2017), Upgrading Wastewater Treatment Plants Based on Reuse Demand, Technical and Environmental Policies (A Case Study), *Environmental Energy and Economics Research*, 1(2), 101-112.
- **Jamshidi S.**, Niksokhan M.H., Ardestani M. (2016), Wastewater Reuse, an Opportunity to Expand Nitrogen Discharge Permit Markets, *Journal of Environmental Studies* 42 (1), 211-227 (in Persian).
- **Jamshidi S.**, Mahjoubi E., Ardestani M. (2016), Feasibility Study of Discharge Permit Markets in Surface Waters, *Journal of Iranian Geology*, 9(36), 57-67 (in Persian).
- **Jamshidi S.**, Niksokhan, M.H. (2016), Waste Load Allocation in Sefidrud Using Water Quality Trading, *Journal of Water and Irrigation Management*, 5(2), 243-259 (in Persian).
- Alighardashi A., Jamadi M.H., Gholikandi G.B. **Jamshidi S.** (2016), The Investigation of Hydrodynamic Characteristics of a Lab Scale Anaerobic Baffled Reactor, *Journal of Civil and Environmental Engineering*, 46(1), 82 (in Persian).
- Akbarzadeh A., **Jamshidi S.**, Vakhshouri M. (2015), Nutrients Uptake Rate and Removal Efficiency of *Vetiveria zizanioides* in Contaminated Waters, *Pollution*, 1, 1-8.
- Akbarzadeh A., Vakhshouri M., **Jamshidi S.**, Khalesidoost M. (2014), An assessment of *Vetiveria zizanioides* removing nutrients from wastewater, *Water and Wastewater Journal*, 1, 57-67 (in Persian).
- Gholikandi G.B., **Jamshidi S.**, Valipour A. (2013), Application of electrolysis upgrading the operation of anaerobic reactors, *Journal of Environmental Studies*, 38, 9-16 (in Persian).