

Personal Details

Gender: Male

Date of Birth: July, 22, 1984

Marital Status: Married

Language: Persian (mother tongue)

English

Arabic (Basic)

Nationality: Iran

Positions

- Assistant professor at **Tarbiat Modares University** Tehran, Iran. Faculty of Humanities. Department of Geography-Spatial planning. Since 2017-2023.
- Associate professor at Tarbiat Modares University Tehran, Iran. Faculty of Civil and Environmental Engineering. Department of Water Engineering. Since 2023.
- The founder and the CEO of the newly established Iranian Hydro-Politics Association (IHPA), recently renamed to **Iranian Water-Diplomacy Association (IWDA)**, **liscenced by Iran's ministry of science, research and technology**. Tehran, Iran. Since 2021. www.waterdiplomacy.academy
- Scientific director of the "*Hydropolitics study group*" in the **Middle East Strategic Studies Center**, Theran, Iran since 2024. www.cmess.ir
- The CEO of "شرکت فرامرزآب خاورمیانه" (translation in English: Middle East Transboundary Water Resources Company), a **Knowledge-Based** company, Tarbiat Modares University, Tehran, Iran, since 2018.
- Scientific director of the interdisciplinary water technology department, faculty of interdisciplinary science and technology, **Tarbiat Modares University**, Tehran, Iran. Since 2019-2021

Educations

- **PhD** (2016). Department of water resources engineering, Tarbiat Modares University, Tehran, Iran.
Thesis Subject: Analyzing mechanisms governing hydro-political situation in transboundary basins - application in Iran's eastern transboundary basins
- **MSc** (2010). Department of water resources engineering, Tarbiat Modares University, Tehran, Iran. **Class Rank: 1st**
Thesis Subject: System analysis of water security in Hamadan province, Iran.
- *Visiting scholar in the **Geneva Water Hub**. the university of Geneva 2019 and 2022*
- *Visiting fellowship in the **Middle East Strategic Studies Center**. Tehran.Iran. 2011-2014*

Research Interests

- Hydropolitics and Water governance
- Climate Change and Water Resources
- System Dynamics in Water Diplomacy and Water Negotiation
- Sustainability Transition

Main Publications

Books and Book Chapters

- **Shahbazbegian, M., Dinar, A. (2025). Decision Support Models (DSMs) to Assist International Transboundary Water Negotiations: Theories and Applications.** Edited book. *Oxford University Press*. Oxford University. **Contracted in February 08 2024 Inpress March 01 2025.**
- Qanbari, M., & Shahbazbegian, M. (2024). Revisiting International Water Law Principles from the “Painted Water” Lens. In *The Palgrave Handbook of Environmental Policy and Law* (pp. 1-12). Cham: Springer Nature Switzerland.

Papers

- **Shahbazbegian, M., Dinar, A. (2023). Painted Water—A Concept to Shape Water Negotiation Strategies in Shared River Basins. *Water Policy*. *Water*. 15(19).**
<https://doi.org/10.3390/w15193343>
- **Shahbazbegian, M., Nabavi, E. (2023). How to Incorporate System Archetypes Into Water Conflicts Analysis: Application in Euphrates, Nile, Zambezi and Kivue Lake Transboundary Basins. *Water*. 15(7)**
<https://doi.org/10.3390/w15071270>
- **Shahbazbegian, M. (2023). Morphology of transition pathway matters: System dynamics to assess alternative livelihood policy towards groundwater sustainability. *Groundwater for Sustainable Development*, 21, 100928.**
<https://doi.org/10.1016/j.gsd.2023.100928>
- **Shahbazbegian, M., Roohollah, Noori. (2022). Hydropolitical System Archetypes: Feedback Structures, Physical Environments, Unintended Behaviors, and a Diagnostic Checklist. *Hydrology*. ; 9(12):207.**
<https://doi.org/10.3390/hydrology9120207>
- **Shahbazbegian, M., Turton, A. (2016). “Hydrpolitical Self-Organization theory: System dynamics to analyze Helmand transboundary river”. *Water policy*. 18 (1) 1-31.** <https://doi.org/10.2166/wp.2016.204>
- **Shahbazbegian, M., & Bagheri, A. (2010). Rethinking assessment of drought impacts: a systemic approach towards sustainability. *Sustainability Science*, 5(2), 223-236.** <https://dx.doi.org/10.1007/s11625-010-0110-4>
- Barhagh, S. E., Zarghami, M., Ghale, Y. A. G., & Shahbazbegian, M. (2021). **System dynamics to assess the effectiveness of restoration scenarios for the Urmia Lake: A prey-predator approach for the human-environment uncertain interactions. *Journal of Hydrology*, 593, 125891.**

- Dogani, A., Dourandish, A., Ghorbani, M., & **Shahbazbegian, M.** (2020). **A hybrid meta-heuristic for a bi-objective stochastic optimization of urban water supply system.** IEEE Access, 8, 135829-135843.
- Noori, R., Karbassi, A., Khakpour, A., **Shahbazbegian, M.**, Badam, H. M. K., & Vesali-Naseh, M. (2012). **Chemometric analysis of surface water quality data: a case study of the Gorganrud River Basin, Iran.** Environmental Modeling & Assessment, 17(4), 411-420.

Around 20 peer review papers published in Persian such as

- **Shahbazbegian, M. R.** (2019). **Examining the criteria of purchasing and transferring water from the Murghab transboundary river between Afghanistan and Turkmenistan to Iran.** Iran-Water Resources Research, 15(2), 202-216. [In Persian]
- **Shahbazbegian, M., & Sadeghi, M.** (2018). **Systematic Analysis of the Requirements, Costs and Effectiveness of Setting up Nuclear Water Desalination at Oman Sea Coasts for Water Transferring to Sistan Plain.** Geopolitics Quarterly, 14(50), 197-223. [In Persian]
- **Shahbazbegian, M. R., & Bagheri, A.** (2016). **Systemic analysis of the vulnerability of the Sistan plain to water scarcity-experiencing policy options based on the resilience approach.** Iran-Water Resources Research, 12(1), 40-55. [In Persian]
- **Shahbazbegian, M., Bagheri, A., & Mousavi Shafaiee, S. M.** (2016). **Analysis of Mechanisms Governing Water Withdrawal from Helmand Transboundary River Originated from Afghanistan, Emphasizing the Role of State Building Project in the Country.** Geopolitics Quarterly, 12(43), 168-190. [In Persian]

Patents

Shahbazbegian, M.R., (2007). **Intelligent irrigation system (2007).** Iran national bureau of Patents. RN 011564 82 82/A. Iran, Tehran.

Teaching Courses

- Hydropolitics and water governance
- System Dynamics Modelling
- System Analysis in Spatial Planning
- Ecological Modelling
- Land Use Planning
- Water Resources System Analysis

Research Projects

International

- The **PI** of an international joint research project entitled “*Launching a Hydropolitical Decision Support Dashboard Based on System Dynamics Modelling: The Helmand Transboundary River Between Iran and Afghanistan*”. A joint research project between Tarbiat Modares University and the University of Geneva. **Funded by ZHAW Leading House for research collaboration**. Since 2020-2022.

National

- The **PI** of the national research project entitled “*Spatial planning towards decreasing Urmia lake basin vulnerability*”. Fully funded by **Iran Ministry of Energy**. 2019-2021.

Subnational

- Main researcher of the national research project entitled “*International water transferring to Iran*”. **Iran’s Ministry of Energy**. 2015-2017.
- Main researcher of the national research project entitled “*Integrated water resources management of Arask transboundary river (Between Iran and Turkmenistan)*”. Water research institute. **Iran Ministry of Energy**. 2009-2011.
- Main researcher of the national research project entitled “*System dynamics modelling of water security in the Hamadan province, Iran*”. Water research institute. **Iran Ministry of Energy**. 2009-2011.
- Main researcher of the national research project entitled “*Integrated Flood Management (IFM) in Iran*”. Water research institute. **Iran Ministry of Energy**. 2009-2011.

Honours

- Holding distinguished researcher of leading applied research projects In **Tarbiat Modares University, Tehran, Iran 2021**
- **Class Rank: 1st** at Tarbiat Modares University, Tehran, Iran. (2008). (MSc graduate)
- **Class Rank: 1st** at Buali Sina University, Hamadan, Iran (2005). (BA graduate)
- Honoured of being supported by the Presidency of the **Islamic Republic of Iran National Elites Foundation, Tehran, Iran** (2010-2016).

References

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| Anthony Turton | Professor at the Free State University, South Africa
Email: tony@anthonyturton.com |
| Mark Zeitoun | Director General of Geneva Water Hub, Switherland
Email: mzeitoun@genevawaterhub.org |