

Dr. Mohammadreza Shahbazbegian
Assistant professor at Tarbiat Modares University, Tehran, Iran



Gender: Male

Date of Birth: July, 22, 1984

Marital Status: Married

Language: Persian (mother tongue)

English

Arabic (Basic)

Nationality: Iranian

Affiliations

Assistant professor at Geography-Spatial planning department at Humanities faculty of Tarbiat Modares University Tehran Iran;

Assistant professor at interdisciplinary department of water technology at Interdisciplinary science and technologies faculty of Tarbiat Modares University Tehran Iran;

Senior researcher of Institute for Middle East Strategic Studies based in Tehran, Iran;

CEO of Faramarzab Khavarmianeh knowledge based company based in Tehran, Iran;

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Education

PhD (2016). Department of water resources management, Tarbiat Modares University, Tehran, Iran.

Thesis Subject: System analyzing of mechanisms governing hydro-political situation in international watershed levels - application in Iran eastern international watersheds.

MSc (2010). Department of water resources management, Tarbiat Modares University, Tehran, Iran.

Thesis Subject: System analysis of water security of Hamadan province, Iran.

Research Interests

Hydropolitics of the Middle East

System dynamics modeling in spatial planning

Water diplomacy between/among transboundary rivers

Water conflict resolution

Sustainable development.

Main Publications

Shahbazbegian, M.R, Turton, A. (2019). “A system roadmap for identifying six hydropolitical faults in the world”. *Political geography*. [Under review].

Shahbazbegian, M.R (2019). *Getting System Dynamics (SD) principles on board to break through groundwater depletion: A case study from Hamadan province, Iran. Ecological economics*. [Under review].

Shahbazbegian, M.R. (2018). “Examining the considerations of purchasing and transferring water from a transboundary river; A hypothetical case study”. *Water Resources Research of Iran*. [In Persian]. In press.

Shahbazbegian M.R, Sadeghi. M. (2019). “ System dynamics simulation for evaluation the policy option on setting up nuclear technology for water desalination in south eastern of Iran”. *International journal of Geopolitics*. *International Geopolitical quarterly*, 14(1) 45-75. [In persian].

Shahbazbegian, M.R, Turton, A. (2016). “Hydrpolitical Self-Organization theory; System dynamics to analyze Helmand transboundary river”. *Water policy*. *Formal Journal of World Water Council*. IWA Publishing.18 (1) 1-31. DOI: [10.2166/wp.2016.204](https://doi.org/10.2166/wp.2016.204)

Shahbazbegian, M.R, Bagheri, A. Mousavy Shafaiee, S.M. (2017). “Scenario planning of Helmand transboundary river flow to Iran based on the state building process in Afghanistan”. *International journal of Geopolitics*. Tehran, Iran. *International Geopolitical quarterly*, 12(4) 23-58. [In persian].

Shahbazbegian, M.R, Bagheri, A. (2015). *Vulnerability reduction of Sistan plain to Helmand river flow tolerance; an increasing-resilience approach*. *Iranian journal of Water Resources Research*. *Formal journal of Iranian water engineering council*. 16(4) 11-35 [In Persian].

Noori, R. Karbassi, A. Khakpour, A. Shahbazbegian, M.R. Mohammadi, H. Vesali-Naseh, M. (2011).“Chemometric Analysis of Surface Water Quality Data: Case Study of the Gorganrud River Basin, Iran”. *Environmental Modeling and Assessment*. *Journal of Environmental modeling Elsevier*, vol1, 120-132.

Shahbazbegian, M.R, Bagheri, A. (2010). “Rethinking assessment of drought impacts through system dynamics approach”. *Sustainability science*, Springer, vol5, 223-236.

Shahbazbegian, M.R, Bagheri, A. (2010). “Representing systemic strategy to cope with drought damages case study: Hamadan province Iran. *CIHEAM*. ISBN 2-85352-441-8. Vol 95, 233-238. Turkey. Istanbul.

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Shahbazbegian, M.R. (2008). **Reviewing drought impacts in Iran. Agricultural engineering quarterly.** *Formal Journal of Agriculture agency of Iran (the most interesting journal of agriculture sector in Iran).* Number 19: 20-27. [In Persian]

Conference papers

Shahbazbegian, M.R. (2015). **“Vulnerability reduction of Sistan plain towards Sustainable development”.** Fifth national conference on Water Resources Management, Iran. Tehran province, Iran [In Persian].

Shahbazbegian, M.R., (2011). **System analysis of water security in Arask transboundary river.** *Fourth national conference on Geopolitics.* Tehran province, Iran [In Persian].

Shahbazbegian, M.R., (2009). **Comparative analysis of economical vulnerability of Hamadan and Yazd Provinces to drought,** *Second national conference on drought impacts and management policy.* Isfahan province, Iran [In Persian].

Shahbazbegian, M.R., (2009). **System thinking to assess drought vulnerability.** *Second national conference on drought impacts and management policy.* Isfahan province, Iran [In Persian].

Shahbazbegian, M.R., (2009). **Drought impact assessment through system dynamics approach.** *Second national conference on drought impacts and management policy.* Isfahan province, Iran [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

System Analysis in Spatial planning. Department of Urban planning at Tarbiat Modares University. Tehran. Iran.

Environmental Carrying Capacity Assessment. Department of Urban planning at Tarbiat Modares University. Tehran. Iran.

Regional Land use planning. Department of Urban planning at Tarbiat Modares University. Tehran. Iran.

Water resources systems analysis. Department of water resources management at Tarbiat Modares University. Tehran. Iran.

System dynamics modeling. Department of water resources management at Tarbiat Modares University. Tehran. Iran.

Master Students Working

Dr. Mohammadreza Shahbazbegian
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Zeinab Feizolahi, '**System analysis of spatial organization governing water resources in Minab coastal watershed, Iran**'. Tarbiat Modares University 2017. Supervisor.

Bahareh Imany, '**System analysis of the role of urban expansion patterns on water resilience in Parand City, Tehran, Iran**'. Tarbiat Modares University 2017. Supervisor.

Somayeh Parvizi, '**System dynamic model to evaluate water resilience in Bandar Abbas province, Iran**', Tarbiat Modares University 2018. Supervisor.

Seyed Abdolkarim Hashemi, '**System evaluation of options on the table to increase regional resilience of Minab coastal Plain, Iran**'. Tarbiat Modares University, Tehran, Iran. 2018. Supervisor.

PhD Students Working

Fatemeh Hashemi' **System dynamics simulation of water resources management of Sari Province, Iran**', 2017. Sari University, Sari, Iran. 2018. Advisor.

Azadeh Dogani' **System analysis of economic resilience to groundwater resources reduction in Mashhad Plain, Iran**'. 2018. Ferdousi University, Mashhad, Iran. Advisor

Habib Rezazadeh' **System analysis of the role of political systems on Iran water crisis**'. Tarbiat Modares University, Tehran, Iran. 2018. Advisor.

Working experiences

Project Leader of a joint research project between Tarbiat modares university and university of Geneva with the title of "Lunching a system dynamics decision support dashboard to analysis hydropolitical situations of Helmand transboundary river between Iran and Afghanistan". (2019). Iran-Swiss Cooperating desk.

Project Leader of national project with the title of "Spatial planning with focus on water issues; Case study the Lake Urmia watershed, Iran". (2019). Ministry of energy of Iran. 2019.

CEO of Faramarzab Knowledge based company (under support of vice president of science and technology of Iran) on building system dynamics decision support models. (2018)

Senior researcher of a national project with the title of "Iran water diplomacy roadmap planning". Iran ministry of energy (2016).

Senior researcher of a hydropolitical studies section of a national project with the title of "International water transferring from a transboundary river to Iran". Iran ministry of energy. (2015-2017).

Visiting fellow researcher in Middle East Strategic Studies Center. (2011-2014).

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Senior researcher of a hydro-political studies section of a national project with the title of “Integrated water resources management of Arask transboundary river (Between Iran and Turkmenistan)”. Water research institute of Iran ministry of energy. (2009-2011).

Project Leader of a national project with the title of “System dynamics modeling of water security in Hamadan province, Iran”. Water research institute. Iran ministry of energy. (2009-2011).

Senior researcher of a socio-political studies section of a national project with the title of “Integrated Flood Management (IFM) in Iran”. Water research institute. Iran ministry of energy. (2009-2011).

Awards

Honored of being supported by the Presidency of Islamic Republic of Iran National Elites Foundation (2010-2016).

Winner of silver medal for a national exposition with the title of “Iranian inventor’s national achievement”, holding a patent with the title of “Intelligent irrigation system” (2008).

Holding honor of being first rank student at Tarbiat Modares University, Tehran, Iran. (2008). (MSc graduate)

Holding honor of being national distinguished student at Buali Sina University, Hamadan province, Iran (2005). (BA graduate)

References

Professor Anthony Turton	Email: tony@anthonyturton.com Website: http://www.anthonyturton.com/	Free State university, South Africa
Professor Saeid Morid	Email: morid_sa@modares.ac.ir Phone: +98(21)48292325	Tarbiat Modares university Iran
Professor Mohammad reza Hafeznia	Email: hafezn_m@modares.ac.ir Phone: +98 21 82883685	Tarbiat Modares university Iran