

Ali Bagheri - Curriculum Vitae



PERSONAL DETAILS

Name: Ali Bagheri

Language: Persian (Mother tongue)

Current Employment: Associate Professor at Tarbiat Modares University, Iran

English (Fluent)

German (Good)

Gender: Male

Arabic (Basic)

Date of Birth: January 20, 1971

Marital Status: Married

Nationality: Iranian

Children: Two

CONTACT ADDRESS

Office:

Mailing address: Department of Water Resources Engineering, Faculty of Agriculture, Tarbiat Modares University, P.O. Box: 14115-336, Tehran, IRAN.

Visiting address: Room No. A-102, Faculty of Agriculture, Tarbiat Modares University, Km 16 Tehran-Karaj Free way, Pajohesh Blvd., Tehran, IRAN.

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EDUCATION

PhD (2006): *Doctor of Philosophy in Civil Engineering – Water Resources Engineering*, Department of Water Resources Engineering, Lund Institute of Technology – Lund University, Sweden.

Thesis: *Sustainable development: Implementation in urban water systems.*

Supervisor: Peder Hjörth (PhD)

MSc (1998): *Master of Science Degree in Civil Engineering – Water Resources Engineering*, Department of Civil Engineering, Sharif University of Technology, Iran.

Thesis: *Reservoir real-time operation based on neural network forecasting.*

Supervisors: Masoud Tajrishi (PhD) & Naser Sadati (PhD)

BSc (1994): *Bachelor of Science Degree in Civil Engineering*, Department of Civil Engineering, Sharif University of Technology, Iran.

TEACHING & ACADEMIC EXPERIENCES

- Member of The Technical Committee in the Research Center of the Iranian Parliament, (January, 2021 – 2023).

Ali Bagheri - Curriculum Vitae

- Member of Higher Educational Planning Committee, Ministry of Science, Research and Technology, Iran (April, 2019 – till now).
- Deputy of Research, Water Engineering Institute, Tarbiat Modares University (November 2018 till now)
- Faculty member of the Interdisciplinary Science and Technology Department, Tarbiat Modares University (March 2019 till now)
- Visiting Associate Professor (March 2018 till September 2018), Fenner School of Environment and Society, the Australian National University (ANU), Canberra, Australia.
- Director of Graduate Program on “Water Resources Management and Planning” (February 2017 till now), Department of Water Resources Engineering, Tarbiat Modares University, Tehran, Iran.
- Associate Prof. (July 2016 till now), Department of Water Resources Engineering, Tarbiat Modares University, Tehran, Iran.
- Assistant Prof. (July, 2007 till July 2016), Department of Water Resources Engineering, Tarbiat Modares University, Tehran, Iran.
 - **Graduate Courses Taught:**
Water Resources System Dynamics, Water Resources System Analysis, Systems Theory, Research Methods, Academic Writing, Participatory Water Resources Management, Water Governance and Policy Making, Water and Society, IWRM Workshop.
 - **Under-graduate Courses Taught:**
Engineering Hydrology, Environmental Engineering
- Head of Water Resources Engineering & Hydraulic Structures Department, Tarbiat Modares University, Tehran, Iran (March 2010 – November 2013).
- Secretary of National Committee on Revision of Water Educational Programs in the Higher Education of Iran, Iranian Ministry of Science, Research, and Technology (May, 2010 – May, 2016).

RESEARCH INTERESTS

Sustainable development, Systems dynamics, Social learning, Water and Land resources Planning and management, Water and environmental institution and governance, Water conflicts.

RESEARCH PROJECTS

- 1- Stakeholders’ analysis in the Hashtgerd plain using the conflict mapping framework (March 2024 – ongoing)
Client: Alborz Province Water Authority
- 2- Pathology of the evolutionary trend of governance path in Iran based on case studies in the local scale. (September 2022 – March 2025)
Client: Iran Water Resources Management Company (associated to the Ministry of Energy)
- 3- Investigating the social issues in ZayandehRud River Basin. (February 2024 – ongoing)
Client: Chaharmahal va Bakhtyari Province Water Authority

Ali Bagheri - Curriculum Vitae

- 4- Preparation of an environmental management plan and design of a monitoring network for protected rivers. (June. 2021 – November 2024)
Client: Department of Environment-Office of land and water
- 5- Making consensus among the stakeholders in Rafsanjan Plain in order to achieve a common understanding of the local groundwater issues. (Aug. 2020 – ongoing)
Client: Iranian Water Policy Research Institute (IWPRI)
- 6- Project management and leadership for policy research in water sector. (October 2021 - July 2022)
Client: Water Research Institute (Associated to the Ministry of Energy)
- 7- Functional-spatial reforms studies of the dam reservoirs providing Tehran drinking water. (Oct 2018 – Oct 2019)
Client: Ministry of Roads and Urban Planning, Islamic Republic of Iran.
- 8- Analysis of Iranian legislation regarding the mechanisms affecting water resources and prescribing institutional reforms in order to enhance the capacity of water governance to adapt to the new water conditions. (December, 2017 – May 2019)
Client: Islamic Parliament Research Centre of the Islamic Republic of Iran.
- 9- Preparation of a framework to initiate River Basin Organizations in transboundary river basins (2017 ongoing)
Client: Gorgan University of Agricultural Sciences & Natural Resources.
- 10- The system of governance and public participation in the ICZM plan of Hormozgan Province (2017)
Client: Ports & Maritime Organization of Iran – Deputy Directorate for Engineering & Infrastructural Affairs Development, Directorate General for Coastal and Port Engineering.
- 11- Institutional analysis of adaptive capacity to climate change in the system of water resources of Tashk-Bakhtegan Basin (2016 March, 2019 October)
Client: Iranian Ministry of Energy – Deputy of Water Affairs
- 12- Development of a water accounting framework in a basin scale – Case study: The system of water accounting in Mashad Plain (2014-2015)
Client: Iranian Ministry of Energy – Khorasan Razavi Water Authority.

TECHNICAL & EXECUTIVE EXPERIENCES

- Member of the Synthesis Working Group in the National Committee of Preparing the Flood Reports, Iran Presidency, University of Tehran (May 2019 – March 2020).
- Director of Environmental Training Office, Department of Environment of Iran, Tehran, Iran (October 2017 – January 2018)
- Member of Managerial Board of Mahsab Shargh Consultant Eng. Co., Tehran, Iran (March 2014 – November 2015)
- Member of Managerial Board of Water and Environmental Department, TNA Consultant Engineering Co., Tehran, Iran (2011 - 2014).
- Project Manager (2011 – 2015), Tarh e Now Andishan Consultant Engineering Co., Tehran, Iran.
Job description: Dam Studies Projects in Suleimani and Erbil, IRAQ-Kurdistan Region

Ali Bagheri - Curriculum Vitae

- Member of steering committee for preparation of the “Inter-basin water transfer” regulations. Department of Environment of Iran, Tehran, Iran (2013-2014).
- Advisor to National Water Master Plan of Iran (2009 – 2010), Iranian Ministry of Energy. Job description: Leading synthesis studies.
- Project Manager (2006 – 2007), AZMA Consultant Engineering Co., Tehran, Iran. Job description: Environmental Management Plan for Kish Island, Iran,
- Project Manager (2001 – 2004), Tarh e Now Andishan Consultant Engineering Co., Tehran, Iran. Job description: Enhancement of Iranian Fishing Ports, Iranian Commercial Ports Master Plan (Privatization and Port Management modules)
- Water Resources Engineer (1996 – 2001), Sazeh Pardazi Iran Consultant Engineering Co., Tehran, Iran. Job description: Hydrological studies in water and hydro-plant projects

COUNTRIES OF WORK EXPERIENCES

- IRAN: 1996 till now, Engineering Consultancy and Academic.
- AUSTRALIA: 2018, Research.
- IRAQ – KURDISTAN Region: 2013-2015, Dam Projects Studies and Investigations in Erbil and Sulaymaniyah.
- SWEDEN: 2004-2006, PhD Studies.

WORKSHOPS HELD

1. Water Resources System Dynamics Winter School, 14-18 January 2023, Department of Water Resources and Environmental Engineering, Shahid Chamran University of Ahwaz.
2. Workshop on: Water Resources System Dynamics. August 13, 2018, Fenner School of Environment and Society, The Australian National University, Canberra, Australia.
3. Ecosystem based management of wetlands and lakes focusing on the issues of Lake Zrêbar (Zrêwar), Sanandaj. April 19, 2016, The 6th National Conference on Water Resources Management of Iran, University of Kurdistan, Sanandaj, Iran.
4. Water governance emphasizing on groundwater resources: Social change, Adaptive management. March 4, 2015, Tarbiat Modares University, Tehran, Iran.
5. Integrated Water Resources Management (IWRM), October 5–20, 2015, Water Resources Management Company of Iran, Ministry of Energy, Tehran, Iran.
6. Water Accounting, January 21, 2014, Khorasan Razavi Water Authority, Mashad, Iran.
7. Water Resources Strategic Planning, May 22, 2012, Tarbiat Modares University, Tehran, Iran.
8. Water Resources Strategic Planning, July 10, 2012, Tarbiat Modares University, Tehran, Iran.
9. Water Accounting, May 28, 2013, Tarbiat Modares University, Tehran, Iran.
10. Integrated Water Resources Management, June 21, 2010 – January 19, 2011, Tarbiat Modares

Ali Bagheri - Curriculum Vitae

University, Tehran, Iran.

SHORT/INTENSIVE COURSES TAKEN

- 1- Td Summer School 2019: Transdisciplinary Research at the Science/Society Interface within an Intercultural Orientation. July 1-5, 2019, Leuphana Univeritat (Germany) & Boku University (Austria), Stepantsminda, Kazbegi, Georgia.
- 2- Participatory Resource Management: Working with Communities and Other Stakeholders. Australian National University, Fenner School of Environment and Society, 03-13 July 2018, Australia, Canberra.
- 3- Iran Water Laws, Tarbiat Modares University, 20-21 May 2015, Tehran, Iran.
- 4- Water Law, The Iranian Association for United Nations Studies (IAUNS) and the Center for International Legal Affairs of Iran's Presidency (CILA), 17-19 February 2015, Tehran, Iran.
- 5- Introduction to the scientific methodology, Faculty of Human Sciences, Tarbiat Modares University, 11 and 18 January 2015, Tehran, Iran.
- 6- Introduction to the schools of methodology, Faculty of Human Sciences, Tarbiat Modares University, 14 and 28 December 2014, Tehran, Iran.
- 7- Spoken Technical Communication, Lunds Tekniska Högskola, Lund University, Spring 2005, Lund, Sweden.
- 8- Information Management and Reading Skills, Lunds Tekniska Högskola, Lund University, Autumn 2004, Lund, Sweden.
- 9- Introduction to Teaching in Higher Education, Lunds Tekniska Högskola, Lund University, 18 October – 18 November 2004, Lund, Sweden.

AWARDS

Scholarship from the Swedish Institute, Sweden, May 1, 2004 – December 31, 2005.

PATENTS

- 1- Title: **Groundwater Policy Simulator**
Registration Number: 111575
Registration Date: 14 September 2024
Place of Registration: Intellectual Property Center, State Organization for Registration of Deeds and Properties of IRAN.

RESEARCH STUDENTS UNDER SUPERVISION

Ali Bagheri - Curriculum Vitae

1. Malmir, Mahsa, **Eliciting the insights of stakeholders in the issue of groundwater depletion-Preliminary design of an applied model**. PhD research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
2. Shariati Niasar, Zahra, **A phenomenological explanation of “water” in the arena of Iranian territory underpinning the the Iranian water doctrine**. Ph.D. research ongoing, Islamic Azad University, Department of Water Engineering, College of Civil Tehran Science and Research branch, Tehran, Iran. (Supervisor).
3. Talebi Eskandari, Soroush, **Water governance construction confronting with people, elites and nature and redefining the concept of participation using an pluralistic approach**. PhD research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
4. Sepehri Ghomsheh, Aref, **The economic effects of alternative livelihoods strategies and cropping pattern changes for adaptation of Kuhpayeh -Segzi Region farmers to water scarcity**. PhD research ongoing, Tarbiat Modares University, Department of Agricultural Economics, (Advisor).
5. Mohammadi Liri, Sepinud, **Framing water issues in terms of a social narrative**. M.Sc. research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
6. YazdanPanah, Narjes, **Cultivating Water Literacy Capacity in Children Through Problem-Based Learning: A Methodological Approach to Extracting Case-Based Water Issues Based on the Hydro-Social Cycle Perspective**. M.Sc. research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
7. Arshady, Mohammad, **Evolutionary Water Governance; Possibility of Transformation of the State-society interrelationship towards Groundwater Security**. PhD research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
8. Saeedi Naeini, samaneh, **Water-Energy-Agriculture Nexus: Development of Solar Power Plants as an Innovative Solution to Reduce Pressure on Water Resources**. PhD research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
9. Gholami, Soroush, **Assessment of Water Security in the Region of Abadan due to Upstream Development in the Karun River Basin**. M.Sc. research ongoing, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).

RESEARCH STUDENTS SUPERVISED/ADVISED

PhD:

1. Jafarzadeh, Soudabeh, **Analyzing the Energy Consumption Process in a Shared Space Based on Occupants' Behavioral Patterns Using System Dynamics Method; Case Study: University of Tehran Student Dormitori**". Ph.D. Thesis, University of Tehran, College of Management and Technology, Department of Industrial Management, (Advisor).
2. Golkar, Elham, **Constructing a Shared Narrative of the Water Issue in the Rafsanjan Plain through a Participatory Modeling Approach**. Ph.D. Thesis, University of Tehran, College of Agriculture & Natural Resources (Karaj), Department of Water Resources Engineering, (Co-supervisor).
3. Soleimani Rouzbahani, Mohsen, **Development of nature-oriented governance system utilizing nature-based solution in Iran**. Ph.D. Thesis, University of Tehran, Department of Environment, College of Natural Resources, Tehran, Iran. (Advisor).
4. Jafari, Faezeh (2024). **The Effect of Climate Change on Water Security in the watersheds of East of Mazandaran Province, Iran**. PhD Thesis, Tarbiat Modares University, Department of Watershed Management, (Co-supervisor).
5. Aslani, Mostafa (2024). **Dynamic Modeling of Water, Food Energy inter Linkages in Irrigation and Drainage Networks (Case Study: Qazvin Irrigation Network)**. Ph.D. Thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Engineering and Management, (Advisor).
6. Ameri Golestan, Matin (2023). **Conceptualizing the collaborative water governance in Iran**. Ph.D. Thesis. University of Allameh Tabatabaei, Department of Public Management, College of Management and Accounting, Tehran, Iran. (Advisor).
7. Tohidi, Mehrdad (2023). **Sociological analysis of the role of water in the development of Iran (Case of Study: Zayandehrood basin in Isfahan province)**. Ph.D. Thesis, University of Tehran, Department of Sociology, College of Social Science, Tehran, Iran. (Advisor).
8. Jabbari Gharabagh, Samin (2022). **Scenario-based Analysis for Futures Studies of Water Availability in Local Scale**. Ph.D. Thesis, University of Urmia, Department of Water Engineering, (Co-supervisor)
9. Soltani, Zahra (2021). **Analysis of demographic components on the water security of Iran**. Ph.D. Thesis, University of Tehran, Department of Demography, (Co-supervisor)
10. Mahdavi, Taghi (2020). **Integrated assessment of the governance and management system of water resources in Azarshahr Plain, Iran**. Ph.D. Thesis, Islamic Azad University, Department of Water Engineering, College of Civil Tehran Science and Research branch, Tehran, Iran. (Supervisor).
11. Ansari, Samin,(2019). **Developing 3 Dimension Post Modern Portfolio Theory Approach for Evaluation of Adaptation Strategies to Climate Change Impacts-Case Study: Tashk and Bakhtegan Basin**. Ph.D. Thesis, University of Tehran, Department of Water Resources Engineering, (Co-Supervisor).
12. Goudarzi, Zahra, (2018). **Local groundwater governance model in Kerman province in order to achieve sustainable development**. Ph.D. Thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Agricultural Education and Extension, (Advisor).

Ali Bagheri - Curriculum Vitae

13. Mirnezami, S. Jalaeddin, (2017). Contextual analysis of groundwater conservation challenges in Iran – Insights from Rafsanjan case study. Ph.D. Thesis, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
14. Zarei, Hamideh, (2016). Re-engineering participatory irrigation management (PIM) in Iran with emphasis on the role of agricultural extension. Ph.D. Thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Agricultural Education and Extension, (Advisor).
15. Shahbazbegian, Mohammadreza, (2015). "Analyzing mechanisms governing hydro-political situation in international watershed levels - application in Iran eastern international watersheds ", Ph.D. Thesis, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
16. Farzaneh, Mohammadreza, (2015). Institutional analysis of groundwater resources in the Rafsanjan study area affected by legal mechanisms. Ph.D. thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
17. Samare Hashemi, Marzieh, (2014). Integrated Water Resources Assessment, Ph.D. thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
18. Vaez Tehrani, Mahsa, (2012). Development of a conceptual model for irrigation networks rehabilitation using a system dynamics approach, Ph.D. thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Co-supervisor).
19. Paimozd, Shahla, (2010). "Inter-provincial water allocation in a shared water basin emphasizing on water conflict resolution – Case study: Qezel-Ozan Basin", Ph.D. thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Co-supervisor).

MSc:

20. Rahdar, S Mohammad (2025). **Development of a water corporate accounting system (Case study: Implementing in a Mining and Industrial Steel Company)**. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
21. Rasouli Majd, Negin (2024). **Designing A Conceptual Model for Local Water Governance Observatory**. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
22. Noorian, Saman (2024). **Assessing the water resources system sustainability of Hashtgerd study area using freshwater health index framework**. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Advisor).
23. Maleki Ghale, HamidReza (2024). **Pathology of Iranian legislation from the perspective of mechanisms affecting water resources in order to develop the necessary frameworks for legislation**. M.Sc. Thesis of Civil Engineering, Sharif University of Technology, Department of Civil Engineering, (Advisor).
24. Heidari Habash, Ali (2023). Designing a simulation game of groundwater systems for the purpose of training and capacity building of actors. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
25. Amani, Mohammad (2023). Design and optimization of water resources quality monitoring network in Jajrud River based on a pollution index approach. M Sc. Thesis of Water Resources Planning and Management, Tarbiat Modares University, Department of Water Resources Engineering,

Ali Bagheri - Curriculum Vitae

(Supervisor).

26. Jafari, Milad (2023). Analysis of structural factors and explanation of water conflict between Alborz and Tehran provinces in the Nested theory of conflict framework. M.Sc. Thesis of Water Resources Planning and Management, Tarbiat Modares University, Department of Water Resources Engineering, (Advisor).
27. Aminian, Hassan (2023). Assessing local community resilience to flood in Qareh Sou River Basin in Golestan Province. M.Sc. Thesis of Water Resources Planning and Management, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
28. Shakibae, Adel, Factors Affecting Local Community Participation in the Groundwater Resources Protection in the Southern Mahyar Plain in Isfahan Province, Iran. M.Sc. Thesis of Rural Development, Tarbiat Modares University, Department of Agricultural Extension, (Advisor).
29. Shojae, Alireza (2022). Re-reading the traditional system and indigenous knowledge of water resources management in Gezir Plain using the institutional analysis and development (IAD) framework. M.Sc. Thesis of Water Resources Planning and Management, Tarbiat Modares University, Department of Water Resources Engineering and Management, (Supervisor).
30. Shakeri Rostami, Hossein (2021). Assessment of flood risk governance arrangements in Iran and in the Province of Golestan. M.Sc. Thesis of Water Resources Planning and Management, Tarbiat Modares University, Department of Water Resources Engineering and Management, (Supervisor).
31. Vafaeifard, Alireza (2021). Analysis of water conflict(s) potentials in the basins providing Tehran's drinking water. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
32. Gharebaghi, Maryam (2020), Derivation of a Performance Assessment Framework for River Basin Organizations - Case study: The Zayandehrud Basin council. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
33. Dehnavi, Saman (2020). Stakeholder Analysis of Water Resources (Case Study: Neishabour Plain). M.Sc. Thesis of Agricultural and Environmental Economics, Faculty of Economics, Allameh Tabataba'i University, Department of Agricultural and Environmental Economics, (Advisor).
34. Farajzadeh, Meysam (2019), Water and Environmental Conflict Mapping in the Urmia Lake basin. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Advisor).
35. Jahani, Maryam (2018), Vulnerability assessment of the socio-ecological system of Qeshm Island with respect to lack of freshwater resources. M.Sc. Thesis of Water Resources Engineering, Gorgan University of Agricultural Sciences and Natural Resources,, Department of Water Resources Engineering, (Co-Supervisor).
36. Omid, Tayeb, (2018), Exploring export-import strategies and priorities of agricultural products based on the concept of virtual water. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
37. Balanj, Hossein (2017), Presentation of the institutional dimensions for adaptation capacity of socio-ecological system in Qesh Island with emphasis on learning mechanisms. M.Sc. Thesis of Water Resources Engineering, Gorgan University of Agricultural Sciences and Natural Resources,, Department of Water Resources Engineering, (Co-Supervisor).
38. Jalali Bourban, Aram (2017), Integrated assessment of system of water resources management in a basin level. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).

Ali Bagheri - Curriculum Vitae

39. Ghotbizadeh, Mahsa (2017), Assessment of institutional adaptive capacity of water resource system in a basin level versus environmental changes (Case study: Tashk-Bakhtegan Basin). M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
40. Moghimi Benhangi, Saman (2017), Assessment of Water Institution in National and Local Scales Regarding the Framework of Social Learning. Case Studies: Tashk-Bakhtegan Basin and Rafsanjan Plain. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
41. Davari, Alireza, (2016), Hydraulic Assessment of River Environmental Conditions Considering the Dynamics of Water Uses, Case Study: Kor River. M.Sc. Thesis of Hydraulic Structures, Tarbiat Modares University, Department of Hydraulic Structures, (Supervisor).
42. Bagheri, Mohammad Hosein, (2016). Determination of restoration objectives and associated environmental water requirement in Lake Bakhtegan based on a holistic approach. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
43. Babaeian, Fariba, (2015). Vulnerability Assessment of the socio-economic and water resource system in the Rafsanjan study area to water scarcity based on the water accounting framework. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Department of Water Resources Engineering, (Supervisor).
44. Ghafouri Fard, Samira, (2015). Integrated water resources system assessment of the Rafsanjan Study area. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
45. Barari, Mohammad Hossein, (2014). Integrated assessment of the Lake Zrêbar (Zrêwar) social-ecological system as a basis for its restoration. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
46. Yousefzadeh Chabok, Masoomah, (2014). An integrated approach to assess water resources systems using efficiency indicators based on a water accounting framework. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
47. Mohammadi, Hadigheh, (2013). A regional approach to vulnerability analysis of water resources system in Birjand Plain to water scarcity. M.Sc. Thesis of Water Resources Engineering, Birjand University, Faculty of Agriculture, Department of Water Resources Engineering, (Co-Supervisor).
48. Falaki Ilkhchi, Ghasem, (2013). Implementation of a water accounting system in a watershed scale: Case study: Zarinehrud Basin, Iran. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
49. Omranian Khorasani, Hamid, (2013). Derivation of integrated water resources management strategies in Southern Khorasan Province, Iran. M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
50. Mohammadpour, Maryam, (2012). Management of Shared Water Resources considering Regulatory Intervention using Game Theory, M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).

Ali Bagheri - Curriculum Vitae

51. Seydi, Mostafa, (2012). The Presentation of Urban Density Pattern through Using System Dynamics Approach. Case Study: 3rd District of Tehran, M.Sc. thesis, Tarbiat Modares University, Faculty of Arts, Department of Urban Planning, (Advisor).
52. Najafi, Husain, (2012). Game Theory insights into shared water resource management, M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
53. Shabani, Samane, (2012). Rehabilitation of Irrigation Networks Using Process Indicators Based on a System Dynamics Approach. Case Study: Foomanat Irrigation Network, M.Sc. Thesis of Hydraulic Structures Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Advisor).
54. Mahmoudpour Nichalani, Taher, (2012). "Water resources allocation modeling among different economic sectors using Modern Portfolio Theory", M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
55. Tavakoli Nabavi, S. Ehsan, (2011). "Determination of Criteria to monitor Zayandeh-Rud River Basin for sustainability from a water resources management perspective", M.Sc. Thesis of Water Resources Engineering, Department of Civil Engineering, Isfahan University of Technology, (Advisor).
56. Zare, Fateme, (2011). "An integrated physico-socio-economic water resources system modeling in a watershed scale (Case study: Gorganrood Watershed – Iran)", M.Sc. Thesis of Water Resources Engineering, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
57. Hatam, Akram, (2011). "A system dynamics approach to renewing irrigation networks based on quantification of efficiency functions – Case study: Qazvin irrigation network, Iran", M.Sc. Thesis of Hydraulic Structures Engineering, Tarbiat Modares University, Faculty of Agriculture, (Advisor).
58. Soleimaniha, Saeed, (2011). "Assesing the water resources system in MASHAD Basin using an integrated approach", M.Sc. Thesis of Water Resources Engineering, Department of Civil Engineering, Azad University (Central Tehran Branch), (Supervisor).
59. Arshady, Mohammad, (2010). "A systemic analysis of hydro-energy and agricultural performances regarding their Vulnerabilities to water shortage conditions in the Great Karoon Basin, Iran", M.Sc. research ongoing, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
60. Farrokhi, Maryam, (2010). "A system dynamics modeling for land development. Case study: District 18 in Tehran community", M.Sc. thesis, Tarbiat Modares University, Faculty of Arts, Department of Urban Planning, (Advisor).
61. Hoseini, S. Ahmad, (2010). "A system dynamics approach to derive strategies for water resources sustainable development - case study: water resources development in the Mashhad plain, Iran", M.Sc. thesis, University of Tehran, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
62. Ghashghaei, Maryam, (2009). "Watershed management to control the potential of eutrophication in reservoirs using an Object-Oriented approach – Case study: Karkheh watershed and reservoir", M.Sc. Thesis, Tarbiat Modares University, Faculty of Agriculture, Department of Water Resources Engineering, (Supervisor).
63. Shahbazbegian, Mohammadreza, (2009). "Evaluation of regional vulnerability to water scarcity – Case study: the Province of Hamedan, Iran", M.Sc. thesis, Tarbiat Modares University, Faculty of

Ali Bagheri - Curriculum Vitae

Agriculture, Department of Water Resources Engineering, (Supervisor).

64. Darijani, Moosa, (2008), “Post-disaster urban water management – Case study: The city of Bam after the Earthquake on 2002”, M.Sc. thesis, Tarbiat Modares University, Faculty of Engineering, Civil Engineering Department, (Advisor).

BOOKS / CHAPTERS IN BOOKS

- Bagheri A.,** Hjörth P. (2023). Sustainable Development and Water Resources. Book Chapter in Historical Water Sustainability. pp 23-36, International Commission on Irrigation and Drainage (ICID) .
- Davari AR., **Bagheri A.,** Reyhani MN., Eslamian S. (2017). Environmental Flows Assessment in Scarce Water Recourses. Book Chapter in Handbook of Drought and Water Scarcity-Vol 1: Environmental Impact and Analysis of Drought and Water Scarcity. pp 331-352, Taylor and Francis Publishing.
- Bagheri A.,** (2006), *Sustainable Development: Implementation in Urban Water Systems*, Doctoral Thesis, ISBN 978-91-628-6789-8, 204 pp, Department of Water Resources Engineering, Lund Institute of Technology, Lund University, Lund, Sweden.

JOURNAL ARTICLES:

Papers in English:

1. Golkar E., **Bagheri A.** (2025). The case of Rafsanjan aquifer: *A story of unsustainable groundwater exploitation and path dependency*. *Sustainability Science*, submitted.
2. Shakeri Rostami H., **Bagheri A.** (2025). *Fragmented Governance, Systemic Risks: A Policy Arrangement Analysis of Flood Risk Management in Iran and Pathways for Adaptive Reform*. *Environmental Science and Policy*, Submitted.
3. Soltani Z., Abbasi-Shavazi MJ., **Bagheri A.** (2024). *Integrated water-population interactions framework: An application to assess water security in Iran*. *Vienna Yearbook of Population Research*, 22, 1-40.
4. Ansari Mahabadi S., **Bagheri A.,** Massah Bavani AR. (2023). *Reducing vulnerability to the climate change - Initiating reversibility and transformation processes adopting a hydro-economic model Theory*. *Environmental Development*, 47, 100893.
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Ali Bagheri - Curriculum Vitae

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