CURRICULUM VITAE

Reza Javidi Sabbaghian, Ph.D.

Water Resources Management Group
Department of Civil Engineering
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SUMMARY OF QUALIFICATIONS

- Management of integrated water resources management (IWRM) projects.
- Management and coordination in modelling multiple criteria decision-making (MCDM) and water governance for effective watershed management projects.
- Expertise in project of modelling decision support system (DSS) for evaluating best management practice (BMP) scenarios based on sustainable development goals (SDGs).
- Experience in management of urban flood simulation and flood risk zoning project.
- Experience and collaboration in project of multiple criteria analysis of using renewable energy for dam reservoirs especially by the floating solar photovoltaic (FSPV) systems.
- Computer modelling and programming in general.

RESEARCH INTERESTS

- Integrated water resources management (IWRM).
- Decision support system (DSS) modelling for effective watershed management.
- Risk analysis in multiple criteria group decision-making for water management.
- Water governance for effective watershed management.
- Game theory applications in water resources planning and management.
- Hydroinformatics applications in water resources planning and management.
- Water-energy nexus for water resources planning and management.
- Hydrological and geohydrological modelling of watershed.
- Remote sensing in water resources and environmental management.

CURRENT POSITION

Assistant Professor, Water Resources Management Group, Department of Civil Engineering, College of Technical Engineering, Hakim Sabzevari University (HSU), Sabzevar, Iran

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PREVIOUS POSITIONS

Mar. 2020-Sep. 2021 Research Project Manager, Iran Water Resources Management Company, Regional Water Company of Khorasan Razavi, Mashhad, Khorasan Razavi, Iran.

Jun. 2019-Sep. 2019 Research Fellow, Regional Water Company of Khorasan Razavi, Mashhad, Khorasan Razavi, Iran.

Jun. 2018-Sep. 2018 Research Fellow, Regional Water Company of Khorasan Razavi, Mashhad, Khorasan Razavi, Iran.

Jan. 2015-Apr. 2017 Research Assistant (R.A.), Dept. of Civil Engineering, College of Engineering, Ferdowsi University of Mashhad (FUM), Mashhad, Khorasan Razavi, Iran.

Jun. 2014-Dec. 2014 Visiting Scholar and Research Assistant (R.A.), Dept. of Biosystems and Agricultural Engineering, Michigan State University (MSU), East Lansing, MI, USA.

May. 2008-Apr. 2014 Senior Expert, ToossAb Water Resources Consulting Engineers Company, Mashhad, Khorasan Razavi, Iran.

EDUCATION

2010-2017 **Ph.D.** in Civil Engineering, Water Resources Management, Department of Civil Engineering, College of Engineering, **Ferdowsi University of Mashhad (FUM)**, Mashhad, Khorasan Razavi, Iran.

- **Ph.D. Thesis:** Developing a Fuzzy Heterogeneous Multi-Attribute Group Decision-Making under Uncertainties and Risk Analysis; Applications for Effective Watershed Management
- 2nd Ranked in the Ph.D. program (GPA 3.83/4.00)

2014-2015 **Research Assistant** in Water Resources and Environmental Management, Department of Biosystems and Agricultural Engineering, College of Engineering, **Michigan State University (MSU)**, East Lansing, MI, USA

- **Research Project:** Analysis of Risk-based Multiple Criteria Decision-Making for Selection of the Best Agricultural Scenario for Effective Watershed Management; Study Area of Saginaw River Basin Management

2006-2009 **M.S.** in Civil Engineering, Hydraulics and Water Engineering, Department of Civil Engineering, College of Engineering, **Ferdowsi University of Mashhad (FUM)**, Mashhad, Khorasan Razavi, Iran

- **Master Thesis:** Application of Multi-Criteria Decision-Making Models in Ranking of Alternatives for Dam Site Investigation; Study Area of Kasillian River Basin
- GPA 3.25/4.00

2000-2005 **B.S.** in Civil Engineering, Department of Civil Engineering, **Islamic Azad University of Mashhad (IAUM)**, Mashhad, Iran

PROFESSIONAL EXPERIENCE

- **Research Assistant Experience**

Mar. 2021-Present **Research Project manager**, Iran Water Resources Management Company, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran

- Urban Flood Simulation and Flood Risk Zoning of Urban Watersheds (Case Study: Sabzevar Urban Watershed)

Mar. 2021-Present **Research Project collaborator**, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran

- Feasibility Study of Using Renewable Energy in the Area of Dams (Case study: Chalydereh, Bar and Zavin Dams)

Mar. 2020-Present **Research Project manager**, Iran Water Resources Management Company, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran

- Seeking Feasibility and Solution for Implementing Integrated Water Resources Management Approach in Iran Water Management Frameworks

Mar. 2020-Present **Research Project collaborator**, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran

- Mathematical Modelling of Northern and Southern Aquifers in Dargaz Study Area Using Available Data and Information

Jun. 2019-Jun. 2020 **Research Project manager**, Department of Civil Engineering, College of Engineering, Hakim Sabzevari University (HSU), Sabzevar, Iran

- Development of an Optimal Multi-Criteria Decision-Making (MCDM) Model for Evaluation of the Contractors' Performance in the Civil Projects; Case study of South Khorasan Gas Company

Jun. 2018-Sep. 2019 **Research Fellow**, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran

- Development of a Sustainable Water Governance Model for Effective Watershed Management based on the Conflict Resolution (Method of Game Theory), Kashafrud River Basin, Iran

Sep. 2017-Present **Faculty Member (Assistant Professor)**, Dept. of Civil Engineering, College of Engineering, Hakim Sabzevari University, Sabzevar, Iran

Jan. 2015-Apr. 2017 **Graduate Research Assistant**, Dept. of Civil Engineering, College of Engineering, Ferdowsi University of Mashhad, Khorasan Razavi, Iran

- Development of a Risk-Based Multi-Criteria Decision-Making (MCDM) Model for Selecting the Most Desirable Water Supply Scenario for Effective Watershed Management, Qaraqum Watershed, Iran

Jun. 2014-Jan. 2015 **Graduate Research Assistant**, Dept. of Biosystems and Agricultural Engineering, College of Engineering, Michigan State University, East Lansing, MI, USA

- Development of a Decision Support System (DSS) Model for Selecting the Most Desirable Best Management Practice (BMP) Scenario in the Entire Watershed, Saginaw River Basin, MI, USA

- **Consulting Engineer Experience**

Sep. 2010-Apr. 2014 **Senior Expert**, ToossAb Consulting Engineers Company, Mashhad, Khorasan Razavi, Iran

- Analysis of a Multi-Attribute Decision-Making Model for Ranking the Eastern River Basin Scenarios in Iran, including: Qaraqum, Namakzar Khaf, Hamoon-Hirmand, and Hamoon-Mashkil River Basins (Based on the AHP-Expert Choice Method)
- Development of an Integrated Water Resources Management (IWRM) Model for the River Basins of Iran, National Synthesis (Study of the Civil Projects)

- Calculation of the Economic Value of Water for Urban, Agricultural and Industrial Demands in Eastern River Basins of Iran, including: Qaraqum, Namakzar Khaf, Hamoon-Hirmand, Hamoon-Mashkil River Basins (Based on the General Maximization Entropy and the Goal Programming methods)

Sep. 2010-Sep. 2011 **Project Supervisor**, Council of Mashhad City, Mashhad, Khorasan Razavi, Iran

- Supervision on the Project of Collection and Conduction of Mashhad Urban Surface Water Using the Storm Water Management Model (SWMM)

Feb. 2010-Sep. 2010 **Senior Expert**, Civil Department of Municipality of Mashhad, Mashhad, Khorasan Razavi, Iran

- Consultant for the Municipality of Mashhad City for Solving the Urban Water Management Challenges

May. 2008-Feb. 2010 **Research Assistant**, ToossAb Consulting Engineers Company, Mashhad, Khorasan Razavi, Iran

- Investigation of the Structural and Non-Structural Scenarios for Flood Control within the Atrak River Basin

AWARDS and HONORS

2020 Selected as the Manager of the National Project of "Seeking Feasibility and Solution for Implementing Integrated Water Resources Management Approach in Iran Illegal Water Management Frameworks" by the Khorasan Razavi Regional Water Company-Iran Water Resources Management Company, Khorasan Razavi Regional Water Company, Mashhad, Khorasan Razavi, Iran.

2020 Selected and Awarded as the Best Faculty Member of Engineering College at Hakim Sabzevari University in the Academic Year (2019-2020), Hakim Sabzevari University, Sabzevar, Khorasan Razavi, Iran.

2019 Selected as the 2nd Reviewer out of the 240 Reviewers of Iran-Water Resources Research Journal in the Academic Year (2019-2020), Iranian Water Resources Association, Tehran, Iran.

2017 2nd Ranked in the Ph.D. Program (GPA 3.83/4.00) with the Excellent Grade of the Ph.D. Thesis in 2017, Ferdowsi University of Mashhad, Mashhad, Khorasan Razavi, Iran.

2016 Selected among the 50 Final Selective Researchers in the World by the International Society on Multiple Criteria Decision-Making in 2016.

2016 International Award for the 12th Multi-Criteria Decision Analysis Summer School, International Society on Multiple Criteria Decision-Making, University of Federal Pernambuco, Recife, Brazil.

2016 The Best Faculty Member (1st Ranked) out of the 250+ Faculty Members of Hakim Sabzevari University (GPA 19.94/20.00) for the Course of "Engineering Hydrology" in the Academic Year (2015-2016), Hakim Sabzevari University, Sabzevar, Iran.

2015 Honored as the Member of the Research Group of Computational Ecohydrology, Michigan State University, East Lansing, MI, USA.

2014 Full Research Sabbatical Fellowship from Iran Ministry of Science, Research and Technology, Michigan State University, Environmental Modelling Lab, Department of Biosystems and Agricultural Engineering, East Lansing, MI, USA.

2012 Full Ph.D. Fellowship from Iran Ministry of Science, Research and Technology, Ferdowsi University of Mashhad, Department of Civil Engineering, Mashhad, Khorasan Razavi, Iran.

2011 The Best Scientific Talented Students in 2011 by the Khorasan Razavi Elites Organization, Mashhad, Khorasan Razavi, Iran.

2010 3rd Ranked among the Participants in the Ph.D. Entrance Examination, Ferdowsi University of Mashhad, Mashhad, Khorasan Razavi, Iran.

2005 3rd Ranked in the 4th Festival of Outstanding, Ingenious and Inventor Students in Khorasan Razavi Province, Ferdowsi University of Mashhad, Mashhad, Khorasan Razavi, Iran.

2002 2nd Ranked as the Editorial Board of the Scientific Journal of Emarat in the 5th National Festival of Academic Student Journals, University of Guilan, Rasht, Guilan, Iran.

1999 Accepted in the 17th Student Olympiad of Mathematics in the Khorasan Razavi Province.

PUBLICATIONS (BOOKS, JOURNALS AND PROCEEDINGS)

- **Book Chapter**

1. **Javidi Sabbaghian, R.**, and Nejadhashemi, A.P., 2018. Selection of the Best Water Supply Scenario for Urban Demand based on the Risk Analysis in Decision-Making Model, Green Energy and Technology: New Trends in Urban Drainage Modelling, 942-947, Springer International Publishing.

- **Journal Papers**

2. Fereshtehpour, M., **Javidi Sabbaghian, R.,** Farrokhi, A., Bahrami Jovein, E., & Ebrahimi Sarindizaj, E., 2021. "Evaluation of Factors Governing the Use of Floating Solar System: A Study of Iran's Important Water Infrastructures", *Renewable Energy*, 171, 1171-1187 (Published).

3. **Javidi Sabbaghian, R.,** and Nejadhashemi, A.P., 2020. "Developing a Risk-Based Consensus-Based Decision-Support System Model for Selection of the Desirable Urban Water Strategy: Kashafroud Watershed Study", *Water*, 12(5), 1305-1338 (Published).

4. **Javidi Sabbaghian, R.,** Zarghami, M., Nejadhashemi, A.P., Sharifi, M.B., Herman, M.R., & Daneshvar, F., 2016. "Application of Risk-Based Multiple Criteria Decision Analysis for Selection of the Best Agricultural Scenario for Effective Watershed Management", *Journal of Environmental Management*, 168, 260-272 (Published).

5. Saghi, H., **Javidi Sabbaghian R.**, and Ramezani Moghaddam, M., 2021. "Evaluating the Water Productivity Management Performance in Irrigation Networks (Case Study: Doosti Irrigation Network - Khorasan Razavi)", *Journal of Watershed Management Research*, 12(23), 251-259 (Published).

6. Hosseinzadeh, A., Kashki, A.R., Karami, M., & **Javidi Sabbaghian R.**, 2021. "Estimating Land Surface Temperature Changes Using Landsat satellite Imagery and Three Algorithms, Mono Window, Single Channel and Planck, Case Study of Bojnourd Plain", *Environmental Researches*, 12(23), 3-14 (Published).

7. Hosseinzadeh, A., Kashki, A.R., **Javidi Sabbaghian R.**, and Karami, M., 2021. "Predicting Land Use Changes with Emphasis on Man-Made Lands Using the CA-Markov Model; Case Study of Bojnourd Plain Catchment", *Journal of Studies of Human Settlements Planning*, (Accepted-Under Publishing).

8. **Javidi Sabbaghian R.**, Shamsi, G.M., and Saghi, H., 2020. "Developing Multiple Criteria Decision-Making Model based on the Best-Worst-VIKOR Method for Evaluation of Civil Projects Contractors; Case Study of Civil Projects in Southern Khorasan Province", *Journal of Civil and Environmental Engineering*, (Accepted-Under Publishing).

9. Ghalenovi, M.A., Babaei Pahnehkolai, S.F., Darzi Naftchali, A., & **Javidi Sabbaghian R.**, 2019. "Analysis and forecasting drought, evapotranspiration and green water changes in Urmia Lake Basin under climate change", *Arid Regions Geographic Studies*, 9(35), 60-73 (Published).

10. **Javidi Sabbaghian, R.**, Sharifi, M.B., Zarghami, M., & Nejadhashemi, A.P., 2017. "Developing a Risk-based Multi-Attribute Group Decision-Making Model for Effective Watershed Management based on the Combinational Method of IOWA-CP Case Study: Mashhad Plain", *Journal of Iran Water Resources Research*, 13(1), 1-19 (Published).

11. **Javidi Sabbaghian, R.**, and Sharifi, M.B., 2017. "Application of Multiple Attribute Decision-making in Ranking of Alternatives for Selecting Dam Locations based on AHP Model", *Scientific Journal of Khesht*, 5, 30-36 (Published).

- **International Conference Proceeding Papers**

12. Ghalenovi, M.A., Babaei-Pahnehkolai F., Darzi-Naftchali, A., & **Javidi Sabbaghian, R.**, 2019. "Forecasting and Zoning of Precipitation at Lake Urmia Basin under Climate Change", 1st International Congress on Iranian Irrigation and Drainage (INCIID 2019), 13-14 November, Urmia University, Urmia, Iran (Published in Proceedings).

13. **Javidi Sabbaghian, R.**, 2019. "Analyzing a Robust Risk-Based Decision Support System Model for Effective Watershed Governance; Study Area of Kashafrud River Basin", 38th IAHR Word Congress, Water Connecting the World (IAHR 2019), 1-6 September, Panama City, Panama (Published in Proceedings).

14. **Javidi Sabbaghian, R.**, and Nejadhashemi, A.P., 2018. "Selection of the Best Water Supply Scenario for Urban Demand based on the Risk Analysis in Decision-Making Model", 11th International Conference on Urban Drainage Modelling (UDM 2018), 23-26 September, Palermo, Italy. (Published in Proceedings)

15. **Javidi Sabbaghian, R.**, 2018. "Developing a comprehensive risk-based method for selecting the most desirable water supply scenario; study of Kashafrud River basin", 5th IAHR Europe Congress New Challenges in Hydraulics and Engineering (Local IAHR 2018), 12-14 June, Trento, Italy. (Published in Proceedings)

16. **Javidi Sabbaghian, R.**, 2018. "Selecting Sustainable Development Criteria for Effective Governance in Watershed Management; Study Area of Kashafrud Watershed", 7th International Conferences of Research Association for Interdisciplinary Studies on Social Sciences (RAIS 2018), 19-20 February, University of South Florida, Tampa, Florida, USA. (Published in Proceedings)

17. **Javidi Sabbaghian, R.**, Zarghami, M., Sharifi, M.B., & Mianabadi, H. 2015. "Developing a Distance-Based Group Consensus Model under Risk Assessment for Effective Watershed Management", 23rd Conference on Multiple Criteria Decision Making (MCDM 2015), 2-7 August, Hamburg, Germany. (Published in Proceedings)

18. **Javidi Sabbaghian, R.**, Nejadhashemi, A.P., Zarghami, M., & Sharifi, M.B. 2015. "Risk Based Multi-Criteria Decision Analysis for Ranking Climate Change Mitigation Scenarios", 1st Climate Change Symposium: Adaptation and Mitigation (ASABE 2015), 3-5 May, Chicago, Illinois, USA. (Published in Proceedings)

19. **Javidi Sabbaghian, R.**, Zarghami, M., & Sharifi, M.B. 2015. "Determination of Decision-Making Criteria Based on Risk Assessment and Group Consensus: Case Study of Water Disaster Management in Mashhad", 6th International Conference on Integrated Natural Disaster Management (INDM 2015), 15-16 February, Mashhad, Khorasan Razavi, Iran (Published in Proceedings).

20. **Javidi Sabbaghian, R.**, Nejadhashemi, A.P., Zarghami, M., & Sharifi, M.B. 2014. "Developing a Fuzzy Group Decision Making Framework for Managing Water Resources Risk", 2nd Annual Symposium of Environmental Risk and Decision Making, 10 October, Michigan State University, East Lansing, USA (Published in Proceedings).

21. **Javidi Sabbaghian, R.**, and Sharifi, M.B., 2009. "Random Modelling Application in River Flow Simulation and Estimation of Mean Annual River Discharge by Time Series Analysis", 1st International Conference of Water Management (ICWR 2009), 16-18 August, shahrud University of Technology, Shahrud, Iran (Published in Proceedings).

22. **Javidi Sabbaghian, R.**, Sharifi, M.B., & Mianabadi, H. 2009. "Modelling of Water Resources and Consumptions within the Basins by means of Mike-Basin Software. Case Study: Atrak River Basin-Golestan Province", 1st International Conference of Water Management (ICWR 2009), 16-18, August, Shahrud University of Technology, shahrud, Iran (Published in Proceedings).

- **National Conference Proceeding Papers**

23. Bahman, A., **Javidi Sabbaghian, R.**, Firozeh, M., & Saghi, Q.H. 2021. "Modeling Water Distribution Networks with Operation Approach Using Darwin Calibrator Tool (Case study: Bojnourd City)", 19th Iranian Hydraulic Conference (IHC 2021), 14-15 February, Ferdowsi University of Mashhad, Mashhad, Iran (Published in Proceedings).

24. Fereshtehpour, M., Bagherpour Mojaver, N., Esmaeelzadeh M., Latif, A., Milani Shirvan, P., & **Javidi Sabbaghian, R.**, 2021. "Investigation about the Role of Floating Solar Photovoltaic Cells in Reducing Evaporation from Dam Reservoirs (Case study: Khorasan Razavi province)", 8th National Conference on Water Resources Management of Iran (NCWRM 2021), 14-15 February, Ferdowsi University of Mashhad, Mashhad, Iran (Published in Proceedings).

25. **Javidi Sabbaghian, R.**, 2020. "Application of Multiple Criteria Decision-Making Model in Ranking the Alternatives for Dam's Location Using the Method of AHP; Case Study of Talar River Basin", 7th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management (CAUP 2020), 31 May-1 June, K. N. Toosi University of Technology, Tehran, Iran (Published in Proceedings).

26. **Javidi Sabbaghian, R.**, 2019. "Ranking of Water Supply Alternatives (Dams) by Analyzing Multiple Criteria Decision-Making Model based on Linear Assignment Method; Case Study of Kasaliyan River Basin", 6th National Conference on Applied Research in Civil Engineering, Architecture and Urban Management (CAUP 2019), 2-3 May, K. N. Toosi University of Technology, Tehran, Iran (Published in Proceedings).

27. **Javidi Sabbaghian, R.**, 2019. "Developing a Governance Model for Effective Watershed Management based on Risk Analysis and Group Consensus of Decision-makers; Study Area of Mashhad", 2nd Governance Public Policy Conference (GPP 2019), 24-25 October, Sharif University of Technology, Tehran, Iran (Published in Proceedings).

28. **Javidi Sabbaghian, R.**, and Zarghami, M., 2018. "Developing a Mathematical Model for Water Governance in Watershed based on the Sustainable Development; Study Area of Kashafrud River Basin", 7th National Conference on Water Resources Management of Iran (NCWRM 2018), 24-25 October, Yazd University, Yazd, Iran (Published in Proceedings).

29. Fathi, S., Bahrami, J., & **Javidi Sabbaghian, R.**, 2018. "Simulation of Water Resources Management based on the Balancing Approach and the Satisfaction of Sustainable Development Criteria; Study Area of Dehgolan Plain", 7th National Conference on Water Resources Management of Iran (NCWRM 2018), 24-25 October, Yazd University, Yazd, Iran (Published in Proceedings).

30. **Javidi Sabbaghian, R.**, Sharifi, M.B., & Zarghami, M., 2016. "Application of Group Decision-Making for Selecting the Final Sustainable Development Criteria based on the Method of IOWA-CP; Study Area of Mashhad Plain", 6th National Conference on Water Resources Management of Iran (NCWRM 2016), 21-23 April, University of Kurdistan, Sanandaj, Iran (Published in Proceedings).

31. **Javidi Sabbaghian, R.**, Sharifi, M.B., Rajabi Mashhadi, H., 2010. "Comparison of Two Methodologies to Determine the Weights of Criteria in Multi-Attribute Decision Making and Prioritization of Alternatives to select dam Location", 5th National Conference of Civil Engineering (NCCE 2010), 4-6 May, Ferdowsi University of Mashhad, Iran (Published in Proceedings).

32. **Javidi Sabbaghian, R.**, 2008. "Optimization of Water Network by Comparison of two Methodologies, Genetic Algorithm and Tabu Search", 3rd Water Resources Management Conference, 15-17 October, University of Tabriz, Tabriz, Iran (Published in Proceedings).

THESIS SUPERVISION/ADVISING

1. Nesari, M., 2021. **Simulation of Rainfall-Runoff within Watersheds based on the HBV Conceptual Model; Study Area of Dargaz Watershed**, M.Sc. Thesis, Department of Civil Engineering-Water and Hydraulic Structures, Hakim Sabzevari University, Sabzevar, Iran (Thesis Supervisor-Under Studying).

2. Goli Hossein Abad, M.R., 2021. **Urban Flood Risk Analysis based on Modelling Low Impact Development Scenarios**, M.Sc. Thesis, Department of Civil Engineering-Water and Hydraulic Structures, Hakim Sabzevari University, Sabzevar, Iran (Thesis Supervisor-Under Studying).

3. Saleh Shoghl Abad, H., 2021. **Conceptual and Mathematical Modelling for the Northern and Southern Aquifers of the Study Area of Dargaz**, M.Sc. Thesis, Department of Civil Engineering-Water Resources Management, Hakim Sabzevari University, Sabzevar, Iran (Thesis Supervisor-Under Studying).

4. Kazemi, M., 2021. **Developing Optimal Model for Urban Water Distribution Network based on Minimizing Cost and Leakage Approach and Sensitivity Analysis on the Model Parameters**, M.Sc. Thesis, Department of Civil Engineering-Water Resources Management, Hakim Sabzevari University, Sabzevar, Iran (Thesis Supervisor-Under Studying).

5. Sarvestan, R., 2019. **Prediction, Simulation, and Collection of Urban Floods based on Meteorological and Hydrologic Watershed Modelling**, Ph.D. Thesis, Department of Water, Meteorology and Geomorphology, Hakim Sabzevari University, Sabzevar, Iran (Thesis Advisor-Under Studying).

6. Hossein Zadeh, A., 2019. **Assessing the Effects of Urban Development and Climate Change on Floods in Bojnourd Plain**, Ph.D. Thesis, Department of Water, Meteorology and Geomorphology, Hakim Sabzevari University, Sabzevar, Iran (Thesis Advisor-Under Studying).

7. Shamsi, G.H., 2019. **Developing a Mathematical Optimum Multiple Criteria Decision-Making Model for Evaluation of Contractors' Performance in Implementation of Urban Civil Projects; Case Study of Birjand Municipality**, M.Sc. Thesis, Department of Civil Engineering, Hakim Sabzevari University, Sabzevar, Iran (Thesis Supervisor-Defended on February 2020).

8. Ramezani Moghaddam, M., 2019. **Investigation of Water Supply Scenarios with respect to Sustainable Development Criteria Using the Watershed Modelling; Study Area of Sarakhs Watershed**, M.Sc. Thesis, Department of Civil Engineering, Hakim Sabzevari University, Sabzevar, Iran (Thesis Advisor- Defended on January 2020).

9. Fathi, S., 2018. **Application of Multiple Criteria Decision-Making for Ranking of Groundwater Management Scenarios in Balancing Approach; Case Study of Dehgolan Plain**, M.Sc. Thesis, Department of Civil Engineering, University of Kordestan, Sanandaj, Iran (Thesis Advisor-Defended on February 2018).

10. Hojjati, S., 2015. **Evaluation of Watershed Modelling Systems based on the Multiple Criteria Decision-Making Analysis; Study Area of Surface Water Resources Allocation for Zayandehrud River Basin**, M.Sc. Seminar, Department of Civil Engineering, Ferdowsi University of Mashhad, Iran (Seminar Advisor-Defended on September 2015).

11. Hashemi, N., 2013. **Application of Project Management in Civil Engineering Projects; Case Study of Shohada Square**, M.Sc. Thesis, Department of Project Management, Municipality University of Mashhad, Iran (Thesis Advisor-Defended on June 2013).

TEACHING ACTIVITIES

- **Post-Graduate Courses**

- Water Resources Systems Analysis I
- Water Resources Systems Analysis II
- Hydrologic Modelling
- Hydroinformatics
- Advanced Hydraulics
- Advanced Hydrology
- Advanced Groundwater Hydrology

- **Under-Graduate Courses**

- Fluid Mechanics
- Hydraulics and Laboratory
- Engineering Hydrology
- Groundwater Engineering
- Environmental Engineering
- Principles of Ecology

- **Teaching Experience**

2017-Present Assistant Professor, Hakim Sabzevari University (HSU), Department of Civil Engineering (Courses: Hydraulic Structures, Applied Hydrology, Groundwater Engineering, Environmental Engineering, Dynamics).

2011-2014 Lecturer, Payam-Noor University (PNU) of Mashhad, Faculty of Engineering, Department of Civil Engineering (Course: Fluid Mechanics).

2010-2017 Lecturer and Assistant Professor, Sadjad University of technology, Faculty of Engineering, Department of Civil Engineering (Courses: Fluid Mechanics, Water and Wastewater Engineering, Statics, Dynamics).

2010-2012 Lecturer, University of Torbat Heydarieh, Department of Civil Engineering (Courses: Fluid Mechanics, Water and Wastewater Engineering).

2007-2008 Lecturer for International Students, Ferdowsi University of Mashhad (Courses: Mathematics, Differential Equations).

2007-2008 Lecturer, Islamic Azad University of Mashhad, Faculty of Engineering, Department of Civil Engineering (Teaching Assistant for Fluid Mechanics and Hydraulics).

COMPUTER SKILLS

- Watershed Planning and Modelling and System Dynamics (WEAP; MODSIM; Vensim).
- Hydrologic Simulation and Rainfall-Runoff Modelling (HEC-HMS; SWAT).
- Hydraulic Modelling and River System Analysis (HEC-RAS).
- Urban Flood Modelling (EPA SWMM).
- Analysis and Design of Water Distribution Network (EPA Net; Water Gems).
- Geographic Information System and Remote Sensing (Arc GIS & RS).
- Time Series and Artificial Neural Network Statistical Analysis (Mini-TAB; SPSS).
- Codding and Programming (MATLAB; Python; R).

PROFESSIONAL MEMBERSHIP

- IWA: International Water Association.
- Computational Ecohydrology Research Group, Michigan State University.
- International Society of MCDM.
- Iranian Water Resources Engineering Association.
- Iranian Hydraulics Association.
- Iranian Operational Research Association.
- Iranian Fuzzy Logic Association.
- SIVE: Iranian Value Engineering Association.

REFERENCES

Reference 1: Dr. Mahdi Zarghami, Professor, University of Tabriz, Faculty of Civil Engineering and Institute of Environment, Tabriz 51664, Azerbaijan Sharghi, Iran

Professor (Adjunct), Sharif University of Technology, Institute of Water and Energy

Phone: +98 (413) 339-2549

E-mail addresses: mzarghami@tabrizu.ac.ir

Reference 2: Dr. Amir Pouyan Nejadhashemi, Professor, Michigan State University, Department of Biosystems and Agricultural Engineering, Farrall Agriculture Engineering Hall, 524 S. Shaw Lane, Room 225, East Lansing, MI 48824-1323, USA

Director, Michigan State University, Center for Intelligent Water Resources Engineering

Director, Michigan State University, Computational Ecohydrology Group

Phone: +1 (517) 432-7653

E-mail addresses: pouyan@msu.edu

Reference 3: Dr. Mohammad Bagher Sharifi, Associate Professor, Ferdowsi University of Mashhad, Department of Civil Engineering, Faculty of Technology and Engineering, Mashhad 91779-48974, Iran

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