

Dr. MOHAMMAD MEHDI MATINZADEH



Personal Info.

DOB: Jan 6, 1986
Birthplace: Isfahan, Iran


Education:


Isfahan University of Technology
Ph.D. (2012-2016)
Water Engineering
(Irrigation and Drainage)
GPA: 19.03 (out of 20)

University of Shahrekord
Master Degree (2008-2010)
Agricultural Engineering-
Irrigation and Drainage
GPA: 18.28 (out of 20)

University of Shahrekord
Bachelor Degree (2004-2008)
Agricultural Engineering-Water
GPA: 17.58 (out of 20)

Contacts

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Academic specifications:

- 1- Exceptional talent in Ph.D. in Water Engineering, Isfahan University of Technology.
- 2- Top student among all Ph.D. students (58 people) in Water Engineering, Isfahan University of Technology, 2005 to 2016.
- 3- Exceptional talent entering the Ph.D. course, Isfahan University of Technology. 2012.
- 4- Exceptional talent entering Masters, Shahrekord University. 2008.
- 5- Top student and exceptional talent in the whole master's degree course in Irrigation and Drainage Engineering. 2008-2010.
- 6- Top student and exceptional talent in the whole undergraduate course of water engineering. 2004-2008.
- 7- Active member of Shahrekord University Elite Association in 2005, 2006, 2007.
- 8- Distinguished student in the academic years of 2004-2005, 2005-2006, 2006-2007, 2007-2008 in the bachelor's degree, 2008-2009 and 2009-2010 in the master's degree at Shahrekord University.

Research Experience:

- 1- **Matinzadeh, M. M.**, J. Abedi-Koupai, A. Sadeghi-Lari, H. Nozari and M. Shayannejad. 2017. Development of an innovative integrated model for the simulation of nitrogen dynamics in farmlands with drainage systems using the system dynamics approach. *Ecological Modelling*. 347: 11–28. doi: 10.1016/j.ecolmodel.2016.12.014 (**IF= 2.275**).
- 2- **Matinzadeh, M. M.**, J. Abedi-Koupai, A. Sadeghi-Lari, H. Nozari and M. Shayannejad. 2017. System dynamic modeling to assess the effect of subsurface drain spacing and depth on minimizing the environmental impacts. *International Journal of Environmental Science and Technology*. 14(3): 563–576. doi: 10.1007/s13762-017-1262-x. (**IF= 2.344**).
- 3- **Matinzadeh, M. M.**, J. Abedi-Koupai, A. Sadeghi-Lari, H. Nozari and M. Shayannejad. 2017. Modeling the impact of drainage design parameters on the amount of nitrogen losses in tile-drainage systems: A case study from southwest Iran. *13th International Drainage Workshop of ICID, Ahwaz*. (Accepted).

- 4- **Matinzadeh, M. M.**, J. Abedi-Koupai, H. Nozari, A. Sadeghi-Lari, and M. Shayannejad. 2016. Modeling of Nitrogen Fertilization Management in Sugarcane Farmlands with Drainage System using System Dynamics Approach. *Journal of Water and Soil Science (Journal of Science and Technology of Agriculture and Natural Resources)*, 20 (76): 187-203.
- 5- **Matinzadeh, M. M.**, J. Abedi-Koupai, A. Sadeghi-Lari, H. Nozari and M. Shayannejad. 2016. Evaluation of field performance of steady state drainage equations for sugarcane agro-industrial Company in Khuzestan. *Journal of Water and Soil Science (Journal of Science and Technology of Agriculture and Natural Resources)*, (Accepted, under print).
- 6- **Matinzadeh, M. M.**, J. Abedi-Koupai, M. Shayannejad, A. Sadeghi-Lari, and H. Nozari. 2016. Water and nitrogen fertilizer management simultaneously in sugarcane farmlands under subsurface drainage system using modeling with system dynamics approach. *Journal of Water and Soil Science (Journal of Science and Technology of Agriculture and Natural Resources)*, (Accepted, under print).
- 7- **Matinzadeh, M. M.**, J. Abedi-Koupai, M. Shayannejad, A. Sadeghi-Lari, and H. Nozari. 2016. Modeling of water management in irrigation of sugarcane fields under drainage systems using system dynamics approach. *The Second National Congress of Irrigation and Drainage of Iran*. Isfahan University of Technology.
- 8- **Matinzadeh, M.M.**, R.A. Fatahi, M. Shayannejad, and Kh. Abdollahi. 2013. Estimation and Reconstruction of Annual Maximum 24-H Rainfall Data Using Combination of Genetic Algorithm and Artificial Neural Networks Models (Case Study: Chaharmahal and Bakhtiari Province). *Iranian Journal of Watershed Management Science and Engineering*. 7 (22): 53-62.
- 9- **Matinzadeh, M.M.**, R.A. Fattahi. M. Shayannejad, and Kh. Abdollahi. 2011. Reconstruction of annual maximum 24-hour rainfall data using fuzzy regression in Chaharmahal and Bakhtiari Province. *Iranian Water Research Journal*. 5 (8): 179-186.
- 10- **Matinzadeh, M.M.**, B. Ghorbani, and M. Zamanian. 2008. Strategies for dealing with the drought crisis in Chaharmahal and Bakhtiari Province by examining the long-term statistics of some stations. *Conference on Drought in Chaharmahal and Bakhtiari Province and Ways to Deal with It*.
- 11- Zamanian, M., P. Nekooeian, **M.M. Matinzadeh**, and J. Payranj. 2008. Study of standardized precipitation index in some stations of Chaharmahal and Bakhtiari Province. *Conference on Drought in Chaharmahal and Bakhtiari Province and Ways to Deal with It*.
- 12- **Book** of Technical and Legal Issues in the Expertise of Water Affairs, 2020. **Matinzadeh, M.M.**, H. Gholami, Z. Matinzadeh. Vol. I, Center of Attorneys, Judicial Experts & Family Advisors.

Workshop Experience:

- 1- Obtaining a 2D and 3D modeling training certificate for water flow and pollutant transfer in soil using HYDRUS model. 2014. **Water Institute of the University of Tehran**.

- 2- Obtaining an educational certificate for groundwater pollution and porous media. 2013. **Tarbiat Modares University.**
- 3- Obtaining an administrative planning certificate. 2012. **Iran Industrial Training and Research Center.**
- 4- Obtaining a certificate for design and implementation of pressurized irrigation systems. 2009. **Agriculture and Natural Resources Engineering Organization of Iran.**
- 5- Exemplary scholar in computer-aided design (CAD) training course. 2009. **The Training Center of the Organization of Statistics and Information Technology of Isfahan Municipality.**
- 6- Obtaining a training certificate for comprehensive drought crisis management with a risk management approach. 2008. **University of Shahrekord.**

Teaching Experience:

- 1- Instructor of the practical part of the course of the flow hydraulics in a porous media. **Master's degree. Isfahan University of Technology.** In the years 2013, 2014, 2015, and 2016.
- 2- Instructor of the practical part of the course of water resources engineering. **Master's degree. Isfahan University of Technology.** In the years 2014, 2015, 2016, and 2017.
- 3- Instructor of specialized course on new methods of water supply and distribution. **Isfahan Higher Educational and Research Complex.** 2015.

Executive Experience:

- 1- Member of the **Executive Committee** of the 1st National Conference on the supply and demand of Drinking Water, Challenges and Solutions. **Isfahan University of Technology.** October 2016.
- 2- Expert of protection and exploitation of surface waters of **Isfahan Regional Water Company.** 2011-2013
- 3- Design of drip irrigation systems for street refuges. Summer 2011. **The Organization of Parks and Green Spaces of Isfahan Municipality.** (Implemented in Fall 2011).
- 4- Official expert of the judiciary system in water affairs, 2017-present.