




**Name & Surname:** Mona Golabi

**Date of Birth:** January 5, 1976

 **Address, Suburb, State, Postcode:** Faculty of Water and Environmental Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan Province, Iran.

**Postcode:** +986135783151

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### **PROFESSIONAL PROFILE:**

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Assistance Professor, Faculty of Water and Environmental Engineering, Shahid Chamran University of Ahvaz and Deputy Dean in Research Affairs, Faculty of Water and Environmental Engineering

### **EDUCATION BACKGROUND:**

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**Ph. D:** Irrigation and Drainage (2009), Faculty of Water Sciences and Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan Province, Iran.

**Thesis title:** "Mathematical Modelling of Response Sugarcane to Drain Water as Irrigation Water and Application SALTMED Model for Sugarcane Irrigation Water Management in Semi-arid Areas."

**MSc:** Agricultural Engineering, Irrigation and Drainage (2004), Faculty of Water Sciences and Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan Province, Iran.

**Thesis title:** "Subsurface leaky pipe irrigation with vertical option as a suitable irrigation method for light soils."

**BS:** Agricultural Engineering, Irrigation Engineering (2001), Faculty of Water Sciences and Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Khuzestan Province, Iran.

### **TEACHING AND TRAINING EXPERIENCE:**

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1. Design of Drainage system (Practical) (BS)
2. Relationship of water, soil and plant (Theoretical) (BS)
3. Relationship of water, soil and plant (Practical) (BS)

4. Principles of Drainage(Theoretical) (BS)
5. Principles of Drainage(Practical) (BS)
6. Water Quality(Theoretical) (BS)
7. Water Quality(Practical) (BS)
8. Irrigation (Theoretical) (BS)
9. Irrigation (Practical) (BS)
10. Hydraulic of ground water(Theoretical) (BS)
11. Hydraulic of ground water(Practical) (BS)
12. Project(BS)
13. Seminar and Research Methods (MSc)
14. Relationship of water, soil and plant (Theoretical) (MSc)

### **HONOURS AND AWARDS:**

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- The Best Faculty Member in Education Section, 2021
- First grade in Ph. D entrance exam of Shahid Chamran University of Ahvaz, 2004.
- First researcher of Khuzestan Water and Power Authority. 2008.
- First lady graduated in Ph.D. of Irrigation and Drainage from Shahid Chamran University of Ahvaz and the second in Iran, 2009.

### **INTERESTS AND RESEACH FIELDS:**

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- Design of Irrigation and Drainage Networks
- Under Pressure Irrigation Design
- Modeling and Use of Professional software
- Salinity and Water stress
- Haloculture
- Reuse of drain water
- Remote Sensing and GIS

### **RESARCH ACTIVITIES:**

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#### **JOURNALS PUBLICATIONS:**

1. Asami, H., M. Golabi and M, Albaji. (2021). Simulation of the biochemical and chemical oxygen demand and total suspended solids in wastewater treatment plants: Data-mining approach. Journal Journal of Cleaner Production, JCR.
2. Goshehgir, A. S., M. Golabi and A. A, Naseri. (2021). Estimation and Comparison Actual Evapotranspiration of Sugarcane Using Separate and Fusion Satellite Images and Lysimetric

- Data with Approach of Determining Water Use Efficiency. *Journal of the Indian Society of Remote Sensing, JCR*.
3. Peyghan, Kh., M. Golabi and M, Albaji. (2020). Simulation of quinoa (*Chenopodium quinoa*) yield and soil salinity under salinity and water stress using the SALTMED model. *Journal Communications in Soil Science and Plant Analysis, JCR*.
  4. Hasily, M. A., M. Golabi and S, Boroomandnasab. (2020). Study and evaluation of irrigation and drainage networks using analytic hierarchy process in Khuzestan Province: A virtual water approach. *Journal Agricultural Water Management, JCR*.
  5. Nessi, L., M. Golabi and J. Gorman. (2020). Spatial interpolation of sodium absorption ratio: A study combining a decision tree model and GIS. *Journal Ecological Indicators, JCR*.
  6. Golabi, M., H. Shokripour, H. Moazed and N, Jaafarzadeh. (2019). Investigation of biosorption on *Ceratophyllum demersum* L. biomass: removal of cadmium (II) from aqueous solution, *Journal Desalination and Water Treatment, JCR*.
  7. Baladi, Y., Ezadpanah, Z., Golabi, M., Albaji, M. (2017). Evaluation Spatial and Temporal Distribution of Maize Water Requirement Using Geostatistical Methods in Khuzestan Province. *Irrigation and Water Engineering, 7(4), 123-136. (In Presian)*
  8. Hasili, M.A., M. Golabi and S, Boroomand Nasab. (2017). Evaluation of Irrigation and Drainage Networks Using Analytic Hierarchy Process with Virtual Water Approach (Case Study; Shahid Rajaei, Ramshir and Hendijan Networks). *Iran-Water Resources Research Journal, Volume 13 (3): 112-127, ISC, (Corresponding author). (In Presian)*
  9. Golabi, M., B, Karami and M, Albaji. (2018). Evaluation the Performance of Irrigation and Drainage Networks Using Analytical Hierarchy Process (AHP) (Case Study; Zohreh-Jarahi and Gotvand Utilization Companies in Khuzestan Province), *Iran Water Research Journal. Volume 11 (1): 65-73, ISC, (Corresponding author). (In Presian)*
  10. Golabi, M., M., Albaji and A. A., Naseri (2018). Assessment of Hydrus-1D Model to Predict Electrical Conductivity and the Ions of Soil Profile (Case Study: Sugarcane under Salinity Stress), *J. Water and Soil Sci (Sci. & Technol. Agric. & Natur. Resour.)*. Volume 21 (3): 231-241, ISC, (Corresponding author). (In Presian)
  11. Goshehgir, A. A., M. Golabi and A. A., Naseri (2018). Comparison of Actual Evapotranspiration Estimated Using Gram-Schmidt Method and SEBAL Algorithm with Lysimetric Data (Case study; Amir Kabir Sugarcane Argo- Industry Company), *Iran-Water Resources Research Journal, Volume 14 (1): 125-139, ISC, (Corresponding author). (In Presian)*
  12. Golabi, M and A. A, Naseri. (2015). Assessment Aquacrop Model to Predict the Sugarcane Yield and Soil Salinity Profiles under Salinity Stress, *Iranian Journal of Soil and Water Research, Volume 46(4): 685-964, ISC, (Corresponding author). (In Presian)*
  13. Golabi, M., M, Albaji and A. A, Naseri. (2015). Estimation of Soil Hydraulic Conductivity using DRAINMOD Model and Comparison with the other Conventional Method (Case Study; Khuzestan Province, Shavoor Plain), *Volume 38 (4): 87-96, ISC, (Corresponding author). (In Presian)*
  14. Golabi, M., M, Albaji and A. A, Naseri. (2014). Feasibility of Utilizing Drain Water of Irrigation and Drainage Networks of Operation Company of Karkheh and Shavoor by Using SALTMED model. *Iran Water Research Journal, Volume 12: 111-119, ISC, (Corresponding author). (In Presian)*

15. Golabi, M and A. A, Naseri. (2012). Feasibility of drainage water compound usage for irrigating Sugarcane in Khuzestan province. *Iranian Journal of Soil and Water Research*, Volume 43 (1): 23-35, ISC, (Corresponding author). (In Presian)
16. Golabi, M. and A. A. M. Akhonaali (2008). Evaluation of increasing pressure head on water movement in dry soil by vertical installation of subsurface leaky pipe. (2007). *Journal of Agricultural Sciences and Natural Resources.*, Volume 14 (5): 216-224, ISC, (Corresponding author). (In Presian)
17. Albaji, M, M, Golabi, A, Hoshmand and M, Ahmadi. (2016). Investigation of Surface, Sprinkler and Drip Irrigation Methods Using GIS, *Jordan Journal of Agricultural Sciences*, Volume 12: 211-222.
18. Golabi, M, M, Albaji, A, A Naseri and M, Jahanshahi. (2015). Comparison of different irrigation methods based on the parametric evaluation approach in the Hendijan Plain. *Tropical Agriculture*, Volume 90(4): 188-199.
19. Albaji, M, M, Golabi, S, Boroomand Nasab and M, Jahanshahi. (2014). Land suitability evaluation for surface, sprinkler and drip irrigation systems. *Transactions of the royal society of South Africa*, Taylor & Francis, Volume 69(2):63-73.
20. Albaji, M, M, Golabi, A, Egdar Nezhad and F, Nazarizadeh. (2014). Assessment of different irrigation systems in Albaji Plain. *Water Science & Technology:Water Supply*, Volume 14(5):778-786.
21. Albaji, M, S, Boroomand Nasab, M, Golabi, and M, Sorkheh Nezhad, M, Ahmadi. (2014). Application Possibilities of Different Irrigation Methods in Hofel Plain. *Yuzuncu Yil University Journal of Agricultural Sciences*, Volume 25(1):13-23.
22. Albaji, M, M, Golabi, V, Piroozfar, A, Egdar Nezhad and F, Nazarizadeh. (2014). Evaluation of Agricultural Land Resources for Irrigation in the Ramhormoz Plain by using GIS. *Acs-Agriculturae Conspectus Scientificus* Volume 79: 93-102.
23. Golabi, M., A, A, Naseri and B, Karami. (2012). Development of an empirical equation for optimum leaching depth (case study in northern Khuzestan province, Iran), *Transactions of the royal society of South Africa*, Taylor & Francis, Volume 67(1):37-43.
24. Albaji, M., A, Shahnazari, M, Behzad, A, A, Naseri, S, Boroomandnasab and M, Golabi. (2010). Comparison of different irrigation methods based on the parametric evaluation approach in Dosalegh plain: Iran, *Agricultural Water Management*, Volume 97(7): 1093-1098.
25. Golabi, M., A, A, Naseri and H, A, Kashkuli. (2009). Evaluation of SALTMED model performance in irrigation and drainage of sugarcane farms in Khuzestan province of Iran, *International Journal of Food, Agriculture & Environment-JFAE*, Volume 7(2): 874-880.
26. Golabi, M., A, A, Naseri and H, A, Kashkuli. (2009). Mathematical modelling of the relationship between salinity of irrigation water and sugarcane juice quality, *International Journal of Food, Agriculture & Environment-JFAE*, Volume 7(3-4): 600-602.
27. Karami, B., K, N, Dhumal, M, Golabi and N, Jaafarzadeh. (2009). Optimization the relationship between water quality index and physical and chemical parameters of water in Bamdezh wetland, Iran, *Journal of Applied Sciences*, Volume 9 (21): 3900-3905.

28. Akhoond-Ali, A. M. and M. Golabi. (2008). Subsurface porous pipe irrigation with vertical option as a suitable irrigation method for light soils. *Asian Journal of Scientific Research*, Volume 1(3): 180-192.
29. Golabi, M., P, Papan and B, Karami. (2008). Leaching Mathematical Modeling for Two Zones of North Khuzestan Province, *Asian Journal of Scientific Research*, Volume 1(4):394-402.
30. Musavi-Jahromi, S, H and M, Golabi (2008). Application of Artificial Neural Networks in the River Water Quality Modeling: Karoon River, Iran, *Journal of Applied Sciences*, Volume 8 (12):2324-2328.

#### **CONFERENCE PRESENTATIONS:**

1. Mansoori, R and M. Golabi. (2018). Investigating the effect of climate parameters on wheat yield (Case study; Ahvaz city). *The Third National Conference on Farm Water Management. (In Persian)*.
2. Mansoori, R and M. Golabi. (2018). Investigating the effect of climate parameters on corn yield (Case study; Ahvaz city). *The 5th National Conference on Irrigation and Drainage Networks Management (In Persian)*.
3. Zoratipour, E., A., Bazaz and M. Golabi. (2018). Evaluation Artificial Neural Networks for Simulation Potential Evapotranspiration (Case Study; Synaptic Station of Shiraz). *The 5th National Conference on Irrigation and Drainage Networks Management (In Persian)*.
4. Mohammadi Mialeh Zadeh, J., Y., Khodarahmi and M. Golabi. (2017). Estimation of flood hydrograph HEC-HMS software and simulation software flood zoning using HEC-RAS (Case study catchment Bakhtiar, Karun River). *2nd Hydrology Conference on National Iranian. (In Persian)*.
5. Goshehgir, A. A., M. Golabi and A. A., Naseri (2017). Comparison evapotranspiration of sugarcane from Landsat 8 images and FAO 56 method (case study: Amir Kabir cultivation and industry) *Fourth Scientific Congress on the Development and Promotion of Agricultural Sciences, Natural Resources and Environment of Iran. (In Persian)*
6. Parham, M., Z. Ezadpanah and M. Golabi (2016). Sensitivity analysis of effective parameters in choosing irrigation methods using AHP (Case study: Plain Boroujerd) *2nd Iranian National Congress of Irrigation and Drainage . (In Persian)*
7. Latifi, S, M, J., M, Golabi and A. A, Naseri. (2016) Changes in soil macronutrients (nitrogen, phosphorus, potassium) in Irrigation serial. *2nd Iranian National Congress of Irrigation and Drainage. (In Persian)*
8. Zandi, S., M, Golabi and K, Bolhasani. (2016) Estimated the minimum of environmental water requirement of Karoun River by Hydrologic and hydraulic methods (case study, Molasani station). *The 8th national conference and exhibition on environmental engineering. (In Persian)*
9. Parham, M., Z. Ezadpanah and M, Golabi .(2016). Analysis and evaluation of groundwater quality spatial variations in southwestern of Boroujerd plains for agricultural using GIS , 4 th *International conference on new idea in agriculture, environment and tourism. (In Persian)*

10. Latifi, S, M, J., M, Golabi and A. A, Naseri. (2016) The effect of Serially Irrigation on Chemical properties of Soil. The third national conference on water management and agricultural soil. (In Presian)
11. Hasili, A., M, Golabi and S, Boroomand Nasab. (2016). Evaluation and determination virtual water of three major crops in shahid Rajae irrigation and drainage network. The First International Conference of Environment,Natural Resources,Agriculture and Pure energy. (In Presian)
12. Hasili, A., M, Golabi and S, Boroomand Nasab. (2016). Evaluation the virtual water of three irrigation and drainage networks of Khuzestan using Analytic Hierarchy Process. 4 th International conference on applied research in agriculture science. (In Presian)
13. Baladi, Y. Z, Ezadpanah., M, Golabi and M, Albaji. (2015). Evaluate and compare different methods of evapotranspiration and water requirement of maize in the south of the Karoun river. Thirteenth National Congress on Irrigation and reduce evaporation. (In Presian)
14. Baladi, Y. Z, Ezadpanah., M, Golabi and M, Albaji. (2015). Zoning water requirement of maize in Khuzestan province using the kriging method and geographical information system GIS. National Conference on water crisis and the ways out. (In Presian)
15. Tisheh Zan, P and M, Golabi. (2015). Data mining of Karoun River to investigation of Ahwaz water flow and salinity. first national congress on Iran's irrigation and drainage. (In Presian)
16. Golabi, M., P, Tisheh Zan and A. A. Naseri. (2015). Sensitivity Analysis, Calibration and Verification EnDrain Model in order to Design of Drainage Systems (Case Study; Shavoor Plain). first national congress on Iran's irrigation and drainage. (In Presian)
17. Golabi, M and B, Karami. (2015). Evaluation the influence parameters on infiltration using Analytical Hierarchy Process AHP, National Conference on solutions to the water crisis in Iran and the Middle East (In Persian).
18. Golabi, M., B, Karami and M. Shahraki (2015). Identify and Optimal Usage of Non-Conventional Water of Sistan and Baluchestan Province, International conference on sustainable development, strategies and challenges (In Persian).
19. Golabi, M., B, Karami and M. Shahraki (2015). Identify and Optimal Usage of Non-Conventional Water of Sistan and Baluchestan Province, International conference on sustainable development, strategies and challenges (In Persian).
20. Golabi, M., P. Tishehzan and B, Karami (2015). Evaluation the Relationship between the Purification of Karoun River and the Concentration of Dust (Case Study; Ahwaz City), 1st National Conference on Environmental Sciences and Engineering (In Persian).
21. Golabi, M and B, Karami. (2014). Evaluation water quality of Karoun river by using Analytical Hierarchy Process (AHP) (Case study: Molasani-Darkhoien), National Conference of Environment and Green Industry (In Persian).
22. Golabi, M., B, Karami and M. Albaji. (2014). Sensitivity analysis of discharge of the Karoun River under the influence of climatic parameters using Qnet2000, the 5th Iranian Water Resources Management Conference (In Persian).
23. Karami, B and Golabi, M. (2013). Mathematical Models as Tools for the Improvement and Management of Wetlands (Case Study; Bamdezh wetland in Iran), In the International Conference on Environmental Crisis and its solutions held at Kish Islan, Iran(In Persian).

24. Karami, B M. Golabi., S. Boromandnasab and A. Sheini Dashtegol. (2008). Simulation of electrical conductivity of agricultural drainage using artificial neural network (Case Study: Eastern drainage of Sugar industry). The 2nd National Conference on Irrigation and Drainage Networks Management (In Persian).
25. Karami, B., H. A. Kashkuli., S. Boromandnasab and M. Golabi. (2008). The use of GIS to organize information on the agricultural sector of sugarcane cultivation and sugar industry Dostbol Khazaei. The 2nd National Conference on Irrigation and Drainage Networks Management (In Persian).
26. Karami, B., M. Golabi and S. Boromandnasab. (2008). Adoption of suitable management methods to deal with drought and its consequences. The 2nd National Conference on Irrigation and Drainage Networks Management (In Persian).
27. Karami, B .,M. Golabi and A. A. Naseri. (2008). Adoption of suitable management methods to deal with drought and its consequences. Second National Water and Wastewater Conference with Operation Approach (In Persian).
28. Golabi, M., H. Mousavi and B. Karami. (2006). Simulation of EC, TDS, SAR of the Karun River using Qnet2000, 7th International River Engineering Seminar (In Persian).
29. Papan, P and M. Golabi. (2014). Evaluation the Mathematical Models of Leaching in Hendijan, Khuzestan Province. 2nd Iranian Conference on Agricultural Soil and Water Management. (In Persian)
30. Papan, P and M. Golabi. (2014). Salinization and solicitation cure of agricultural land of Shavoor plain. 2nd Iranian Conference on Agricultural Soil and Water Management. (In Persian)
31. Shayan, F., A. A. Naseri, A. R. Hoshmand and M, Golabi. (2013). Evaluation of the unsaturated soil hydraulic conductivity (case study; Shahid Chamran University). 13th Iranian Soil Science Congress. (In Persian)
32. Shayan, F., A. A. Naseri, A. R. Hoshmand and M, Golabi. (2013). Application disc preameter in order to determination hydraulic properties of soil (Case study, Shahid Chamran University). 13th Iranian Soil Science Congress. (In Persian)
33. Golabi. M., P. Papan and H. Shahrooe. (2013). Land suitability evaluation for surface and under pressure irrigation systems in Marbacheh land of Ramhormoz, Khuzestan province. 4 th National Conference on Irrigation and Drainage Networks Management. (In Persian)
34. Shayan, F., A. A. Naseri, A. R. Hoshmand and M, Golabi. (2013). Application disc preameter in order to evaluation temporal changes of hydraulic properties of soil under cultivation wheat (Case study, Shahid Chamran University). 4 th National Conference on Irrigation and Drainage Networks Management. (In Persian)
35. Golabi, M and A. A. Naseri. (2013). Assessment Water Uptake Model under Salinity Stress (Case Study Sugarcane, Khuzestan Province). The 2nd International Conference on Plant, Water, Soil and Weather Modeling. (In Persian)
36. Akhoond-Ali, A.M and Golabi, M. (2005). Subsurface leaky pipe irrigation with vertical option as a suitable irrigation method for light soils. Management of Tropical Sandy Soil for Sustainable Agriculture (Proceedings), 27th November – 2nd December 2005, Khon Kaen, Thailand

## **RESEARCH PROJECTS:**

- Introducing current vegetation and future vegetation for fine dust, 2020.
- Climate Change and its Impact on Precipitation in Khuzestan Province over the Decades Using Climate Models, 2020.
- Determination Quantitative and Qualitative Potential of Conventional Water in Khuzestan Province with Haloculture Approach and Assessment of Environmental Impacts, 2019.
- Investigation of the effects of fine dust and irrigation with drain water on Atriplex with approach of haloculture in the dust center of Khuzestan province, 2020.
- Assessment of the Effects of Holding Time and Temperature on Various Water Quality Parameters (Case Study; Karun River, Ahvaz Station), 2018.
- Study of the use of unconventional waters in Sistan and Baluchestan province, 2014.
- Investigating the use of drain water of Karkheh and Shawoor Irrigation and Drainage Networks and its effect on soil quality and yield using SALTMED management model, 2011.

## **PROFESSIONAL MEMBERSHIPS:**

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- Member of Scientific Committee of the 5th National Conference on Irrigation and Drainage Networks of Chamran University, 2018.
- Member of Scientific Committee of the 10th International Conference on River Engineering, 2015.
- Member of Scientific Committee of the 550,000-hectare plan, 2015.
- Member of Scientific Committee The first conference on environmental science and engineering at Chamran University, 2014.
- Executive Secretary of the First National Conference on Environmental Science and Engineering, 2014.
- Member of Scientific committee of the fourth national conference on irrigation and drainage networks management in Chamran University, 2013.
- Member of Scientific Committee of the 4th National Conference on Water Resources Management, Amir Kabir University of Technology, 2011.
- Member of Scientific Committee of the 3rd National Conference on Irrigation and Drainage Networks Management, Shahid Chamran University of Ahvaz, 2000.
- The member of scientific committee of the 3rd international conference on "Research and New Perspective in Developing Sciences" 2012, Pune, India.



**LANGUAGES:**

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Persian (native)

English (medium)