

CURRICULUM VITAE

Dr. Somayeh Zarei Doudeji

**Assistant Professor, Faculty of Earth Sciences, Shahrood University of
Technology, Shahrood, Iran**

June 2023



Name: Somayeh Zarei Doudeji

Date of Birth: Aug. 5th, 1982

Marital status: Married

Children: 2 Childs (Son and Girl)

Nationality: Iranian

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Education:

2000-2004: B.Sc. in Geology, Shiraz University, Earth Sciences department, Shiraz, Iran.

2004-2007: M.Sc. in Hydrogeology, Shiraz University, Shiraz, Iran.

2007-2014: Ph.D. Student in Hydrogeology, Shiraz University, Shiraz, Iran.

Thesis:

M.Sc. Simulation of flow near a partially penetrating well in an unconfined aquifer with variable thickness by analytic element method

Ph.D. Capture zone of a multi-well system in bounded aquifers

Position: Assistant Professor (Staff) in Hydrogeology since 2020-now.

Affiliation: Faculty of Earth Sciences, Shahrood University of Technology, Shahrood, Iran

Research Interests:

- Groundwater modeling
- Analytical modeling
- Groundwater Resources Management

- Dynamic system modeling
- Artificial intelligence modeling in groundwater
- Groundwater contamination
- Climate change effect on groundwater
- Deep and Shallow Groundwater evaluation

Courses List:

Level course Title:

B.Sc. Hydrogeology

B.Sc. Remote sensing

B.Sc. Hydrology

M.Sc. Artificial recharge of groundwater

M.Sc. Groundwater Tracers

M.Sc. Groundwater exploitation

M.Sc. Groundwater contamination

Ph.D. Advanced groundwater modeling

Ph.D. Advanced groundwater management

Supervisor:

M.Sc. : 3 Master student in Hydrogeology

Ph.D.: about 4 Ph.D. students in Hydrogeology

Publications (papers)

- H. Jafari, S. Moradi Nazarpour, M. Niknam, R. Bagheri, S. Zarei Doudeji. Delineating capture zone of the production wells in Abarkooh aquifer (central Iran) using WhAEM model and statistical method of multivariate regression. *Geopersia*, 2023.
- B. Ekramipour, H. Jafari, S. Moradi Nazarpour, R. Bagheri, S. Zarei Doudaji, R. Jahanshahi. Estimating recharge into the Semnan alluvial aquifer using saturated zone studies. *Geopersia*, 2023.
- S. Zarei Doudeji, R. Bagheri, H. Jafari. Investigation of groundwater level fluctuations and potable water volume of Kazeroun plain aquifer using statistical analysis, hydro-chemical methods and GIS. *Hydrogeology*, 2022.
- M. Aref, R. Bagheri, G. Forghani, H. Jafari, S. Zarei. Precipitation Isotopic Characteristics and Its Origin in a Desert Area, Central Iran. *ACS Earth and Space Chemistry*, 2022;6; 2888-2899.
- S. Zarei-Doudei, N. Samani. Climate change and its effect on groundwater of Kazerun basin, Fars Province, Iran. 11th National congress of civil engineering, 2019.

- N. Samani, F. Karimi, S. Zarei-Doudeji. Analytical and Numerical Capture Zone models of a Multi-Well System in Bounded Aquifers: Comparison and Application. *J. of Advance Applied Geology*, Accepted paper. 2018.
- S. Zarei-Doudeji, N. Samani. The Analytical Model of Capture Zone of a Multi-well System in Bounded Aquifers. *Hydrogeology*, Volume 1, No. 1, Spring 2016.
- S. Zarei-Doudeji, N. Samani. Capture zone of a multi-well system in bounded rectangular-shaped aquifers: Modeling and application. *Iranian Journal of Science and Technology*, 2016.
- N. Samani, S. Zarei-Doudeji. A General Analytical Capture Zone model: A Tool for Groundwater Remediation. *International Federation of Automatic Control (IFAC)*, Austria, 2015, 48-1, 234-239. Free online papers.
- N. Samani, S. Zarei-Doudeji. A General Multi-Well Capture Zone Model: A Tool for Groundwater Management. *International conference on environmental science and technologies*, Tehran, 2015.
- S. Zarei-Doudeji, N. Samani. Capture zone of a multi-well system in a bounded peninsula-shaped aquifers. *Journal of Contaminant Hydrology*, 2014;164;114-124.
- N. Samani, S. Zarei-Doudeji. Analytical Solutions for the Capture Zone of a Multi-well System in Wedge-Shaped Aquifers and Their Application. *Advanced Applied Geology*, 2014;4: 51-55.
- N. Samani, S. Zarei-Doudeji. Determining the capture zone of a multi-well system in confined wedge aquifers by analytical method and its applications. *Applied geology*, 2014.
- N. Samani, S. Zarei-Doudeji. Capture zone of a multi-well system in confined and unconfined wedge-shaped aquifers. *Advances in water resources*, 2012;39:71-84.
- N. Samani, S. Zarei-Doudeji. Capture zone of a multi-well system in wedge-shaped aquifers for remediation purposes. *Proceedings of the 2nd International Conference on Environmental Pollution and Remediation Montreal, Quebec, Canada, 28-30 August 2012 Paper No. 216*