

# Curriculum Vitae



**NAME & SURNAME:** Heidar Ghafari

**DATE OF BIRTH:** 4th December 1983 (13 Azar 1362)

 **ADDRESS, SUBURB, STATE, POSTALCODE:**

Department of Soil Science and engineering, Faculty of Agriculture, Shahid Chamran University of Ahvaz. Ahvaz. Khuzestan province.

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## PROFESSIONAL PROFILE:

Assistant Professor of Soil Science (Soil Physics and Conservation) in Shahid Chamran University (SCU) of Ahvaz, Iran

## EDUCATION BACKGROUND:

**Ph.D:** Soil Physics and Conservation (2017), University of Tehran, Tehran, Iran

**Thesis title:**

Evaluation of erosion effects on soil and water resources, and determine soil loss tolerance (Haji-Ghushan Watershed, Golestan Province)

**MSc:** Soil Physics and Conservation (2010), Tabriz University, Tabriz, Iran

**Dissertation title:**

Salinity and sodicity effects of irrigation water on soil physical quality criteria

**BS:** Soil Science (2007), University of Shahrekord, Shahrekord Iran

## TEACHING AND TRAINING EXPERIENCE:

- General Soil Science
- Soil and Plant Water Relations
- Soil Physics
- Soil Erosion and Conservation
- Internship I
- Soil Mechanics
- Sustainable Soil Resource Management
- Hydrology

## INTERESTS AND RESEARCH FIELDS:

- Soil Quality and Resiliency
- Soil erosion Modeling
- Soil Erosion Tolerance
- Soil Erosion and Productivity
- Using GIS and RS in Soil Management
- Soil Erosion and Climate Change

## RESEARCH ACTIVITIES:

### PUBLICATIONS:

Ghafari H., M. Gorji, M. Arabkhedri, Gh. A. Roshani, A. Heidari, S. Akhavan. 2017. Identification and prioritization of critical erosion areas based on onsite and offsite effects, CATENA, Volume 156, Page 1-9. doi:10.1016/j.catena.2017.03.014.

Ghafari H., M.R. Neyshabouri. 2011. Salinity and Sodicity Effects of Irrigation Water on Soil Physical Quality Criteria. (In Persian). Journal of Water and Soil. Vol. 26, No. 1, Mar-Apr 2012, p. 65-74. doi:[10.22067/JSW.V0I0.13630](https://doi.org/10.22067/JSW.V0I0.13630).

Ghafari H., Nekooeimehr M. and Farzan M. 2011. Effects of tillage method on the soil physical factors influencing crop growth by LLWR (in Persian). Journal of Soil Research. Vol. 26, No. 3, p. 269-276.

Ghafari H., and Gorji M. 2015. Assessing the effects of erosion on long-term soil productivity potential in Kohin watershed, Ghazvin province. (In Persian). Electronic Journal of Soil Management and Sustainable Production. Vol. 5, No. 3, p. 261-266.

Ghafari H., Gorji M., ArabKhedri M., Rooshani G.A., Heidari, A.2017. Evaluation of soil loss tolerance via soil productivity and quality at a watershed scale: Haji-Ghushan watershed,

Golestan province (in Persian). Iranian Journal of Soil and Water Research. Vol. 48, No. 5, p. 985-994. doi: [10.22059/IJSWR.2017.218799.667558](https://doi.org/10.22059/IJSWR.2017.218799.667558)

Ghafari H. 2021. The Effect of Physical Crust Development and Disturbance on Erodibility and Dust Emission in Laboratory Conditions (in Persian). Iranian Journal of Soil and Water Research. Vol 52, Issue 4, p. 1059-1069. doi:[10.22059/IJSWR.2021.316173.668853](https://doi.org/10.22059/IJSWR.2021.316173.668853)

Ghafari H. ArabKhedri M, Gorji M. 2021. An overview on soil loss tolerance methods: challenges and opportunities (in Persian). Journal of Watershed Engineering and Management. Vol 13, Issue 2, Summer 2021, p 389-404. doi: [10.22092/IJWMSE.2020.342692.1787](https://doi.org/10.22092/IJWMSE.2020.342692.1787)

Ghafari H., Gorji M., 2021. Simulation of erosion effects on rainfed wheat (*Triticum aestivum*) yield using SWAT model (in Persian). Water and Soil Management and Modeling journal. doi: [10.22098/MMWS.2021.9267.1029](https://doi.org/10.22098/MMWS.2021.9267.1029)

## CONFERENCE PRESENTATIONS:

Ghafari H. 2021. Simulation of the effects of physical soil crusts on wind erosion by SWEEP model. 4th National Conference on Soil Conservation and Watershed Management with with a focus on dust, February 19, 2021.Tehran.

Ghafari H. 2021. Protective role of physical soil crusts on wind erosion in Khuzestan's dust-hotspot area. 4th National Conference on Soil Conservation and Watershed Management with with a focus on dust, February 19, 2021. Tehran

Ghafari H., Arabkherdri M. 2016. Calculation of maximum total daily load (TMDL) of sediment and phosphorus using flow continuity curve (Gorganrood). First national conference of soil Conservation and Watershed Management. February 2016. Tehran

Nekooimehr M., Ghafari H. 2014. Rainwater harvesting and increase of soil moisture capacity in sloping lands of arid and semi-arid regions, 13th Congress of Soil Sciences, February 2014. Ahvaz,

Ghafari H., Gorji M. 2014. Determination of tolerable soil erosion using soil productivity index, 13th Congress of Soil Sciences, Ahvaz, February 2014

Ghafari H., Arabkherdri M. 2021. A comprehensive framework for sustainable soil and water conservation based on tolerable soil loss and sediment yield. 3rd International Youth Forum on Soil and Water Conservation (3rd IYFSWC). Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, NOOR, IRAN. 16-21 October, 2021

## RESEARCH PROJECTS:

Influence of soil crusts development and disturbance on wind erosion. 2020.

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## PROFESSIONAL MEMBERSHIPS:

Soil Science Society of Iran
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## LANGUAGES:

<b>PERSIAN:</b> Native
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<b>ENGLISH:</b> Intermediate
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