

CURRICULUM VITAE



Name: Haji Karimi
Date of birth: 23/12/1971
Marital Statue: Married, Two children
Nationality: Iranian
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Employment: Staff member of Earth sciences Department of Shiraz University, Iran (2004-2005)
Current Position: Staff member of the Agriculture Faculty, Ilam University, Iran (2005 until now)
Academic degree: Full professor

ACADEMIC EDUCATION

1990-1994: B.Sc. In Geology, Esfahan University, Esfahan, Iran.

1994-1998: M.Sc. In Hydrogeology, Shiraz University, Iran.

1998-2003: Ph.D. In Hydrogeology, Shiraz University, Iran.

HONORS AND SCHOLARSHIP:

Top score student in B.S. degree.

Top score student in M.S. degree.

Top score student in comprehensive examination

6 months scholar visit during Ph.D. student, Montpellier University, France.

Scholarship: Iran Ministry of sciences, Research, and Technology [PhD]

The first graduated Ph.D. in Hydrogeology in Iran, Shiraz University.

Best researcher of Natural resources department, Ilam University (2004)

Best researcher of Natural resources department, Ilam University (2006)

Best researcher of Natural resources department, Ilam University (2008)

THESIS:

M.Sc. : Hydrogeological and hydrochemical evaluation of springs and piezometers of Podeno Anticline, Firozabad.

Ph.D. : Hydrogeological behavior of the Alvand basin karst aquifers, Kermanshah

PROFESSIONAL EXPERIENCE

Hydrogeology of the Tangab dam, Firozabad, Fars province (1996)

Cooperation in two dye tracings in Tangab dam site, Fars province (1997).

Cooperation in two dye tracings in Seymareh dam site, Ilam province (1999).

Cooperation in two dye tracing in Kuhrang tunnel project, Chahar Mahal Va Bakhtiari province (2000).

Comprehensive study of Alvand Basin karst aquifer (2002)

Cooperation in dye tracing in Sazbon dam site, Ilam province (2004).

North Shiraz hard rock hydrogeology (2004)

Hydrogeology of Beheshtabad dam and tunnel, Isfahan (2007)

Groundwater dye tracing in Patagh Dam, Kermanshah (2007)

Hydrogeology and dye tracing in Leileh Dam, Kermanshah (2012)

Research areas:

Karst hydrogeology, Groundwater tracing, Isotope hydrology, general hydrogeology

Teaching:

B.S. courses: Hydrogeochemistry, Hydrology, Physical geology, Soil and water conservation, Weather and climate

M.Sc. courses: Hydrogeochemistry, Hydrology, Groundwater hydraulics, Karst hydrology, Groundwater tracing, physical geology, engineering geology, geomorphology.

Ph.D. course: Advanced hydrochemistry

Official Occupations

Research manager of Ilam University, 2004

Research deputy of Ilam University, 2005

Student affairs and culture deputy of Ilam University, 2006 to 2008

Journal Papers:

1-**Haji Karimi**, Ezzat Raeisi, Mohammad Zare (2003) Hydrodynamic Behavior of the Gilan Karst Spring, West of the Zagros, Iran, Cave and Karst Science, V.30, No.1, P.15-22.

2-**Haji Karimi**, Ezzat Raeisi, Michel Bakalowicz (2005) Characterising the main Karst aquifers of the Alvand basin, Northwest of Zagros, Iran, by a hydrogeochemical approach, Hydrogeology journal, V. 13, Nos. 5-6, P:787 – 799.

3- **Haji Karimi**, Ezzat Raeisi, Mohammad Zare (2005) PHYSICOCHEMICAL TIME SERIES OF KARST SPRINGS AS A TOOL TO DIFFERENTIATE THE SOURCE OF SPRING WATER, Carbonates and Evaporites, Vol. 20, No. 2: 138- 147 (ISI Journal).

4- **Haji Karimi**, Farid Moore (2008) The source and heating mechanism for the Ahram, Mirahmad and Garu thermal springs, Zagros Mountains, Iran, Geothermics, Vol. 37, P. 84-100.

5- **Haji Karimi**, Mohsen Tavakoli (2007) The source of encountered water in Saymareh power plant tunnel, Ilam, Engineering geology, Vol. 2, No. 1 (In Persian).

6- Mehran Maghsodi, **Haji Karimi**, Farshad Safari, Zabihollah Charrahi (2009) Karst development study of Parav-Bistone massif using recession coefficients, time to death of springs and chemical and isotope results, Natural Geography researches, Vol. 69 (In Persian).

7- Parviz Geraei, **Haji Karimi**, Mohsen Tavakoli (2010) Landslide susceptibility map preparation using multiple regression method (case study: Ilam Dam basin), Agriculture and natural resources researches, V. 1, p. 1-15 (In Persian)

8- **Haji Karimi**, Javad Ashjari (2009) Periodic breakthrough curve of tracer dye in Gelodareh Spring, Zagros, Iran, Cave and karst science, v.36 (1), p.5-10 (ISI Journal).

9- Parviz Geraei, **Haji Karimi** (2010) Determination of the best landslide susceptibility mapping method in the Ilam dam basin, Quarterly Geographical researches, No. 96, p. 101-127 (In Persian)

10- Yekdeli Kermanshahi, K.; Tabaraki, R; **Karimi, H.**; Nikorazm, M. and Abbasi, S. (2010) Classification of Iranian bottled waters as indicated by manufacturer's labellings, Food Chemistry, v.120, No.4, p. 1218-1223 (ISI Journal).

- 11- **Haji Karimi**, Kamal Taheri (2010) Hazards and Mechanism of sinkholes on Kabudar Ahang and Famenin Plains of Hamadan, Iran, *Natural Hazards*, v.55, No.2, p.481-499 (ISI Journal).
- 12- H. Hasani, J. Mamizadeh and **H. Karimi** (2013) Stability of Slope and Seepage Analysis in Earth Fills Dams Using Numerical Models (Case Study: Ilam DAM-Iran), *World Applied Sciences Journal* 21 (9): 1398-1402.
- 13- AMIN SHARIFIFAR, HADI GHORBANI, **HAJI KARIMI** (2013) INTEGRATED LAND EVALUATION FOR SUSTAINABLE AGRICULTURAL PRODUCTION BY USING ANALYTICAL HIERARCHY PROCESS, *Agriculture (Poľnohospodárstvo)*, 59, (3): 131–140.
- 14- Abdolreza Mohammadi, **Haji Karimi**, Zahedeh Haydarizadi, Mohammad Javad Khojasteh and Fatemeh Mahdavifar (2014) Investigating the Impact of Groundwater Electrical Conductivity Changes on Desertification Trend Using GIS (Case Study: Mehran Plain), *Journal of Middle East Applied Science and Technology (JMEAST)*, Issue 3(4), May 2014, pp. 83-86.
- 15- Hassan Fathizad, **Haji Karimi**, Seyed Maryam Alibakhshi (2014) The estimation of erosion and sediment by using the RUSLE model and RS and GIS techniques (Case study: Arid and semi-arid regions of Doviraj, Ilam province), *International journal of agriculture and crop sciences (IJACS)*, v.6 (6), p.304-314.
- 16- Tayabeh Mansouri Sarab Badie, **Haji Karimi**, Saeid Shabanlo, Mehran Ghodrati (2014) Quantitative Evaluation of Songhor Plain Ground Water Resources for Optimized Utilization, *FAUNA ROSSII I SOPREDEL NYKH STRAN (ISSN: 1026-5619)*, Vol. 10, No. 6; p. 751-761.
- 17- Jafari, Saied Hasan and **Karimi, Haji** (2014) Study of stability and Dynamic analysis of trenches in road of Elam -Kermanshah by nailing method, *Advances in Engineering Technology*, 8(9), Pages: 866-879.
- 18- Saleh Yousefi; Somayeh Mirzaee; Mehdi Tazeh; Hamidreza Pourghasemi; **Haji Karimi** (2015) Comparison of different algorithms for land use mapping in dry climate using satellite images: a case study of the Central regions of Iran, *Desert*, Volume 20, Issue 1, pp. 1-10.
- 19- Manouchehr Chitsazan, Hossein Karimi Vardanjani, **Haji Karimi**, Abbas Charchi (2015) A comparison between karst development in two main zones of Iran: case study: Keyno anticline (Zagros Range) and Shotori anticline (Central Iran), *Arabian Journal of Geosciences* (2015) 8:10833–10844.
- 20- Elham Karami, **Haji Karimi**, Mohsen Tavakoli, Gholamreza Banparvari (2015) Investigating The Effects of Water Transfer from Karkheh Dam on Physico-Chemical Properties of Soil in Dasht-e Abbas plain, Ilam, *Geopersia*, v. 5 (2), pp. 151-160.

- 21-Hydar Ebrahimi, Reza Ghazavi & **Haji Karimi** (2016) Estimation of Groundwater Recharge from the Rainfall and Irrigation in an Arid Environment Using Inverse Modeling Approach and RS, *Water Resour Manage*, V. 30, Issue 6, p. 1939-1951.
- 22- Zahedeh Heidarizadi, **Haji Karimi**, Seyyed Abdolhossein Arami (2017) Assessment of Desertification Hazard in Abu-Ghoveyr Plain, Dehloran, Ilam Province, *JOURNAL OF THE FACULTY OF FORESTRY ISTANBUL UNIVERSITY*, Vol. 67 (1), p. 49-64.
- 23- Abolfazl Rezaei, **Haji Karimi**, Hongbin Zhan (2017) The importance of understanding the hydrogeology and geochemistry of Karst terrains for safely siting dams, *Journal of Cave and Karst Studies*, v. 79, no. 1, p. 48-58.
- 24- Ali Khanamani, Hassan Fathizad, **Haji Karimi**, Saeed Shojaei (2017) Assessing Desertification by using Soil Indices, *Arabian Journal of Geosciences*, V. 10, Issue 13, Article 287, p. 1-10.
- 25- Karimi Vardanjani, Hossein; Chitsazan, Manouchehr; Ford, Derek; **Karimi, Haji**; Charchi, Abbas (2018) Initial assessment of recharge areas for large karst springs - a case study from the central Zagros Mountains, Iran, *Hydrogeology Journal*, V. 26, No. 1, pp. 57-70.
- 26- **Haji Karimi**, Ezzatollah Raeisi, Abolfazl Rezaei (2018) Determination of karst aquifer characteristics using physicochemical parameters (A case study from west of Iran), *Geopersia*, 8(2), p. 293-305.
- 27- Maryam Pournader, Hasan Ahmadi, Sadat Feiznia, **Haji Karimi**, Hamid Reza Peirovan (2018) Spatial prediction of soil erosion susceptibility: an evaluation of the maximum entropy model, *Earth Science Informatics*, V.11, Issue 3, p. 389-401.
- 28- Soraya Yaghobi, Marzban Faramarzi, **Haji Karimi**, Javad Sarvarian (2019) Simulation of land-use changes in relation to changes of groundwater level in arid rangeland in western Iran, *International journal of environmental science and technology*, V.16, issue 3, pp. 1637-1648.
- 29- Behnaz Shabab Boroujeni, Javad Ashjari and **Haji Karimi** (2019) GEOLOGICAL AND HYDROGEOLOGICAL EFFECTIVE FACTORS IN THE HIGH PERMEABILITY ZONES OF SEVERAL DAM SITES OF THE ZAGROS REGION, IRAN, *Journal of Cave and Karst Studies*, v. 81, no. 1, p. 9-24.
- 30- E. Azizi, M. Tavakoli, **H. Karimi**, M. Faramarzi (2019) Evaluating the efficiency of the neural network to other methods in predicting drought in arid and semi-arid regions of western Iran, *Arabian Journal of Geosciences*, V. 12, Issue 15, Article 489, p. 1-16
- 31- Zahedeh Heidarizadi, **Haji Karimi**, Seyyed Abdolhossein Arami (2017) Assessment of Desertification Hazard in Abu-Ghoveyr Plain, Dehloran, Ilam

Province, JOURNAL OF THE FACULTY OF FORESTRY ISTANBUL UNIVERSITY, Vol. 67 (1), p. 49-64.

32- Abolfazl Rezaei, **Haji Karimi**, Hongbin Zhan (2017) The importance of understanding the hydrogeology and geochemistry of Karst terrains for safely siting dams, Journal of Cave and Karst Studies, v. 79, no. 1, p. 48-58.

33- Ali Khanamani, Hassan Fathizad, **Haji Karimi**, Saeed Shojaei (2017) Assessing Desertification by using Soil Indices, Arabian Journal of Geosciences, V. 10, Issue 13, Article 287, p. 1-10.

34- Karimi Vardanjani, Hossein; Chitsazan, Manouchehr; Ford, Derek; **Karimi, Haji**; Charchi, Abbas (2018) Initial assessment of recharge areas for large karst springs - a case study from the central Zagros Mountains, Iran, Hydrogeology Journal, V. 26, No. 1, pp. 57-70.

35- **Haji Karimi**, Ezzatollah Raeisi, Abolfazl Rezaei (2018) Determination of karst aquifer characteristics using physicochemical parameters (A case study from west of Iran), Geopersia, 8(2), p. 293-305.

36- Maryam Pournader, Hasan Ahmadi, Sadat Feiznia, **Haji Karimi**, Hamid Reza Peirovan (2018) Spatial prediction of soil erosion susceptibility: an evaluation of the maximum entropy model, Earth Science Informatics, V.11, Issue 3, p. 389-401.

37- Soraya Yaghoobi, Marzban Faramarzi, **Haji Karimi**, Javad Sarvarian (2019) Simulation of land-use changes in relation to changes of groundwater level in arid rangeland in western Iran, International journal of environmental science and technology, V.16, issue 3, pp. 1637-1648.

38- Behnaz Shabab Boroujeni, Javad Ashjari and **Haji Karimi** (2019) GEOLOGICAL AND HYDROGEOLOGICAL EFFECTIVE FACTORS IN THE HIGH PERMEABILITY ZONES OF SEVERAL DAM SITES OF THE ZAGROS REGION, IRAN, Journal of Cave and Karst Studies, v. 81, no. 1, p. 9-24.

39- E. Azizi, M. Tavakoli, **H. Karimi**, M. Faramarzi (2019) Evaluating the efficiency of the neural network to other methods in predicting drought in arid and semi-arid regions of western Iran, Arabian Journal of Geosciences, V. 12, Issue 15, Article 489, p. 1-16

40- Hossein Abedian, Gholam Hossein Karami, Haji Karimi (2019) The effect of scale on the water leakage from the reservoir and abutment of Beheshtabad Dam, Bulletin of Engineering Geology and the Environment, V. 78, No. 8, pp. 5569-5581.

41-Mojgan Entezari, Haji Karimi, Hamide Gholam Haidari, Maryam Jafar Aghdam (2020) Estimation of groundwater recharge level in karstic aquifers using modified APLIS model, Arabian Journal of Geosciences, v.13, 198:1-12, <https://doi.org/10.1007/s12517-020-5173-7>.

42- Zeinab Najafi, Gholam Hossein Karami, **Haji Karimi**, Michel Schneider (Accepted) Effect of Agricultural Activities on the Transboundary Aquifer Systems in the Northwestern Part of the Zagros Range, West of Iran, Annual Review of Environment and Resources, (Q1)

43- Noredin Rostami, **Haji Karimi**, Mohsen Tavakoli, and Reza Omidipour (DOI) Short-term effect of oil-mulch on vegetation dynamic; Integration of ecological and remote sensing-based approaches, Land Degradation & Development,

Papers in national and international conferences and seminars:

- 1- Evaluation of physicochemical difference reasons of karst springs of Podeno anticline, Firozabad. *Proceeding of The 2nd symposium of geological society of Iran*, 31 Aug. – 2 Sep. 1998, p.377-382. (In Farsi)
- 2- Podeno karst aquifer characteristics using physicochemical parameters of Atashkadeh springs. *Proceeding of The 2nd symposium of geological society of Iran*, 31 Aug. – 2 Sep. 1998, p.383-387. (In Farsi)
- 3- Determination of catchment area of Tange-Atashgah springs using geological and hydrogeological methods. *Proceeding of The 3rd symposium of geological society of Iran*, Shiraz, 31 Aug. – 2 Sep. 1999, p.513-517. (In Farsi)
- 4- The evaluation of relationship between water level changes and permeability of geologic layers using piezometric networks. *Proceedings of The first national conference on engineering geology and the environment*, Tehran, 11-14 Oct. 1999, V.2, P. 709-720. (In Farsi)
- 5- The source and warming mechanism of Ahram and Mirahmad geothermal springs. *35th seminar on hydrotherapy thermal & mineral waters*, Tehran, May 6-7, 2000, P.21-22. (In Farsi)
- 6- Hydrogeology and forming mechanism of Serizjan cave, Firozabad. *Proceedings of The 4th symposium of geological society of Iran*, Tabriz, 29-31 Aug. 2000, p.64-67. (In Farsi)
- 7- Source and warming mechanism of Ahram and Mirahmad geothermal springs, *The 4th symposium of geological society of Iran*, Tabriz, 29-31 Aug. 2000, p.640. (In Farsi)
- 8- Determination of catchment area of aquifer bearing Tangab dam site using water balance method. *Proceedings of The second national conference on engineering geology and the environment*, Tehran, 16-18 Oct. 2001, V.2, P. 773-755. (In Farsi)
- 9- Determination of the catchment area of karstic springs, Alvand Basin, Iran. *18th symposium on theoretical and applied karstology*, Romania, May24-June 1, 2002, P.14-15.
- 10- Hydrogeological behavior of a long and narrow karst aquifer, Gilan karst spring, Iran, GSI abstracts, 2004, Vol. 36, No.2, p.62.

- 11-The quality controlling factors of the Alvand basin main karst springs, northwest of Zagros, Iran, *National conference on karst problems of Iran*, Lorestan, 29th Jul. to 7th Aug. 2004.
- 12-Pseudo-diffuse flow, a new interpretation of flow system in karst, *Proceedings of The 8th symposium of geological society of Iran*, Shahrood, 2004. (In Farsi)
- 13-Karst water use feasibility in Esfandan water supply, 23rd Earth Sciences meeting, Tehran, 2004. (In Farsi)
- 14- STUDY OF KARST DEVELOPMENT AND POSSIBLE LEAKAGE FROM THE SAZBON DAM, IRAN, **14th INTERNATIONAL CONGRESS SPELEOLOGY August 21-28-2005, Athens**
- 15-Hydrochemical characteristics of Sazbon dam site formations, *Proceedings of The 9th symposium of geological society of Iran*, Tehran, 2004. (In Farsi)
- 16-Formation mechanism of collapsed sinkholes of Jaber plain, Badreh, Ilam, the conference on sinkholes hazards in karst terrains, Kermanshah, 2005. (In Farsi)
- 17-The problems of piezometers in dam sites of Iran, *Proceedings of The 4th national conference on engineering geology and the environment*, Tehran, 2005, (In Farsi)
- 18-Using remote sensing and GIS techniques in order to know the role of structural, lithological and topographical factors in the location of Birg karst springs, 24rd Earth Sciences meeting, Tehran, 2005. (In Farsi)
- 19- Comparison of water pollution in two karst springs in the northwest of Zagros, Iran, **3rd Asia Pacific Association of Hydrology and Water Resources (APHW)**, 2006, Bangkok, Thailand.
- 20- Physicochemical characteristics of the southern Iran thermal springs, **Proceedings of the 12th international symposium on water-rock interaction WRI-12**, Kunming, China, 31 July-5 August 2007, p. 217-221.
- 21-Statistical analysis of flood in Ilam dam basin, The 3rd conference on watershed, soil and water management, Kerman, 2006. (In Farsi)
- 22-Physicochemical differences reasons of the Alvand basin's main karst springs, The conference on water resources of Kermanshah, 2006.
- 23-Landslide susceptibility mapping in Ilam dam basin using AHP method, the 4th conference on watershed management, Karaj, 2006. (In Farsi)
- 24-Water leakage assessment from right abutment of Patagh dam, Kermanshah, *Proceedings of The 5th national conference on engineering geology and the environment*, Tehran, 2006, (In Farsi)
- 25-Landslide susceptibility mapping in Ilam dam basin and the effective factors in their occurrence, *Proceedings of The 5th national conference on engineering geology and the environment*, Tehran, 2006, (In Farsi)
- 26-Inspection of water resources in Mako-Poldasht pseudo karst system, west Azerbaijan, Iran, **IAHR International Groundwater Symposium: Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling & Applications**, June 18-20, 2008, Turkey.

- 27-27- Saldaran krst aquifer flow regimes using Pire-Ghar spring physicochemical characteristics, **IAHR International Groundwater Symposium: Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling & Applications**, June 18-20, 2008, Turkey.
- 28- Inspection of salt extraction from Zagros salt plugs, case study: Firozabad Bachoon salt plug, Fars province, **The first national conference on salt**, Semnan, 2008. (In Farsi)
- 29- Barme-Farhad springs, rescued karst water from natural pollution, **4th Symposium of Arabo-German Forum for environmental studies**, Oct. 7-8, Fez, Morocco
- 30- **H. Karimi**; K. Taheri (2009) Hazards and Mechanism of sinkholes on Kabudar Ahang and Famenin Plains of Hamadan, Iran; International conference on Water resources, 16-18 Aug. Shahrood, Iran.
- 31- **H. Karimi**; A.A. Pakzad (2009) Water tightness evaluation of the Kangir dam reservoir, Ilam Province, Iran; International conference on Water resources, 16-18 Aug. Shahrood, Iran.
- 32- **H. Karimi** (2009) Hydrogeological Characteristics of the Rijab karst spring, Kermanshah Province, Iran; International conference on Water resources, 16-18 Aug. Shahrood, Iran.
- 33- Fathollah Naderi, Behroz Naseri, **Haji Karimi**, Ghasem Habibi Bibalani (2010) Efficiency evaluation of different landslide susceptibility mapping methods (Case study: Zangvan watershed, Ilam province), International conference of soil and roots engineering relationship, Ardebil, Iran.
- 34- **Haji Karimi**; Sadegh Alimoradi (2011) The effects of the 2007–2008 drought on water resources in Ilam Province, Iran, Proceedings of symposium J-H02 held during IUGG2011 in Melbourne, Australia, (IAHS Publ. 344, 2011).
- 35- **Haji Karimi**, Sara Moftian (2012) Calibration of SWAT hydrologic model for the Ilam Dam Watershed in Western Iran, 2012 international SWAT conference, July 16-20 Delhi, India.

Book:

- 1- Chapter book: "Hydrogeology of karstic area" in: Hydrogeology, A global perspective (Edited by: Kazemi, G.A., INTECH publication, 2012)

Completed research projects

- 1- Study of forming mechanism of Badreh Zamzam well in order to enhancement of construction projects
- 2- Water leakage probability from right abutment of Patagh dam, Kermanshah, using dye tracing
- 3- Drinking water supply feasibility for Ilam city
- 4- Survey of pollution due to trout farms in Kolm river, Ilam province, Iran
- 5- Determination of the best landslide susceptibility mapping method in the Chardavel basin, Ilam Province, Iran
- 6- Hydrogeology and dye tracing in Leileh Dam site, Kermanshah province, Iran

- 7- Influence of Groundwater Drawdown on Land Subsidence of Mehran Plain ,Ilam
- 8- Determination of effective factors in decreasing water quality in the Meimeh River and providing Curative solutions
- 9- Heavy metal study of Meimeh River and providing curative solutions
- 10- Capability of Kermanshah province main springs in order to construct mineral water bottling factories
- 11- Investigation of Using Oil Mulch on Wind Erosion and Sand Dunes Stabilization in Abu-Ghovair, Dehloran
- 12- Groundwater vulnerability of Bartash- Dehloran plain using DRASTIC model
- 13- Investigate the socioeconomic effects of dust storm in Ilam Province