

Academic and Professional Resume

Full Name: Sakineh Lotfinasabasl

Employment Status: Faculty Member and Assistant Research Professor, Research Institute of Forests and Rangelands, Iran

Date of Employment: September 22, 2000

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Educational Background:

Degree	Thesis Title	GPA	Graduation Rank	Field of Study	Major	University
B.A	Study of Crown Gall and Root Cancer in Grapevines	17.08	First	Plant Pathology	Agricultural Engineering	University of Tehran, Iran
MSC	Investigation of Hydrocarbon Pollution in Groundwater of Tehran Watershed Due to Gas Station Leaks for Drinking Purposes and Providing Planning and Management Solutions	GTF	Third	Planning & Management	Environmental Science	University of Tehran, Iran
Ph.D	Assessment of Human Activities on Mangrove Ecosystem	Satisfactory	-	Environmental Pollution	Environmental Science	University of Pune, India

Work experience

1. Agricultural Education Specialist from 2000 to 2003
2. Senior Agricultural Education Specialist from 2000 to 2008
3. Head of the Information Technology Committee at the Staff Training Office from 2007 to 2010
4. Head of the Staff Training Office Portal from 2007 to 2010
5. Head of the Coordination of Executive Affairs Department in 2010
6. Head of the Quality Improvement Group at the Staff Training Office from 2009 to 2010
7. Main Collaborator and Member of the Technical Committee for Designing the Web-Based Comprehensive Staff Training System and the Comprehensive Staff Training System Portal

8. Head of the Educational Planning Department at the Staff Training Office, Promotion and Education Deputy of the Ministry of Agriculture Jihad from 2008 to 2010
9. Head of the Educational Planning and Standards Development Department from 2012 to 2013
10. Head of the Affairs of Knowledge-Based Companies and Institutions at the Commercialization and Technology Transfer Office of the Agricultural Research, Education, and Extension Organization, Ministry of Agriculture Jihad from 2013 to 2014
11. Head of the Secretariat of the Evaluation and Qualification Committee for Knowledge-Based Companies and Institutions in the Agricultural Sector from 2013 to 2015
12. Head of the Studies and Coordination of Provincial Affairs Group – Promotion and Education Deputy from 2014 to 2016
13. Manager of the Research, Education, and Extension Affairs System at the Promotion and Education Deputy of the Ministry of Agriculture Jihad from 2014 to 2016
14. Head of the Secretariat of the New Agricultural Extension System Plan in 2015
15. Faculty Member of the Research Institute of Forests and Rangelands from 2013 to present
16. Head of the Documentation, Library, and Natural Resources Archives Department of Iran from 2017 to 2022
17. Representative and Executive Liaison of the Institute with the National Regional Center for Information Science and Technology from 2017 to present
18. Secretary of the Comprehensive Dust Studies Secretariat of Khuzestan in 2018
19. Deputy Technical Manager of the Dryland Research Laboratory from 2018 to 2022
20. Secretary and Member of the Publications Committee of the Research Institute of Forests and Rangelands from 2017 to 2022

Prepared Guidelines/Regulations/Reports

1. Preparation and drafting of the executive process guidelines for short-term (initial and in-service) training courses for the employees of the Ministry of Jihad-e-Agriculture
2. Preparation and drafting of the evaluation guidelines for the training courses for the employees of the Ministry of Jihad-e-Agriculture
3. Preparation and drafting of the examination guidelines for short-term non-attendance training courses of the Ministry of Jihad-e-Agriculture
4. Preparation and drafting of the supervision and evaluation guidelines for in-service training courses for employees
5. Preparation and drafting of the selection and qualification guidelines for instructors of short-term training courses for employees
6. Preparation and drafting of the needs assessment guidelines for training courses
7. Review of the comprehensive staff training system guidelines
8. Performance reports of short-term training courses for the employees of the Ministry of Jihad-e-Agriculture in the years 2009-2010
9. Calendar of short-term training courses for the employees of the Ministry of Jihad-e-Agriculture in the years 2009, 2010, and 2011
10. Preparation and drafting of the guidelines for the establishment of knowledge-based companies in the agricultural sector
11. Preparation and drafting of the guidelines for the cooperation and participation of faculty members in the establishment of knowledge-based companies in the agricultural sector

Membership in Committees, Associations, and Conferences

1. Member of the Nanotechnology Committee of the Ministry of Jihad-e-Agriculture from 2003 to 2006
2. Member and Secretary of the Committee for Developing Environmental Expert Training Modules of the Ministry of Jihad-e-Agriculture from 2006 to 2010
3. Member of the Statistics and Information Committee of the Deputy for Education and Human Resource Development of the Agricultural Research, Education, and Extension Organization (AREEO) from 2002 to 2006
4. Head and Member of the Information Technology Committee of the Staff Training Office from 2007 to 2010
5. Member of the Technical Committee for Designing the Comprehensive Staff Training System Software in a Web Environment
6. Member and Supervisor of the Committee for Reviewing Agricultural Economics Expert Training Modules in 2013
7. Member of the Education Planning Committee in the Fifth Development Plan in the Agricultural Sector, Deputy for Promotion and Education of AREEO
8. Member of the Education Planning Committee in the Sixth Development Plan in the Agricultural Sector, Deputy for Promotion and Education of AREEO
9. Member of the Subcommittee for Staff Training Planning in the Sixth Development Plan in the Agricultural Sector, Deputy for Promotion and Education of AREEO
10. Member and Secretary of the Working Group for Establishing the Agricultural Knowledge and Information Management System of AREEO
11. Member of the American Society of Civil Engineers and Environmental Engineers since 2011
12. Board Member of the Faculty Association of the Research Institute of Forests and Rangelands since 2017
13. Secretary of the Publications Committee of the Research Institute of Forests and Rangelands since 2017
14. Member of the Committee for Promotion and Transfer of Extension Findings of the Research Institute of Forests and Rangelands
15. Member of the Specialized Committee of the Desert Research Section of the Research Institute of Forests and Rangelands
16. Member of the Comprehensive Dust Studies Working Group of Khuzestan
17. Member of the Scientific Committee of the International Conference on Water, Environment, and Sustainable Development
18. Member of the Women's Affairs Commission of the Ministry of Jihad-e-Agriculture

Teaching Experience

1. Environmental Pollution and Its Impacts on Sustainable Agriculture
2. Principles and Methods of Environmental Management in the Agricultural Sector
3. Fundamentals and Concepts of Environment and Sustainable Development in the Agricultural Sector
4. Environmental Pollution in the Agricultural Sector
5. Environmental and Sustainable Development in the Agricultural Sector

6. Teaching Microsoft Excel Training Course
7. Workshop on Educational Needs Assessment
8. Training Course on Familiarization with the Web-Based Comprehensive Staff Training System and the Comprehensive Staff Training System Portal
9. Training Course on Module Writing
10. Workshop on Staff Training Managers Empowerment
11. Teaching Office Software (Word, Access, PowerPoint, and Excel) and Windows Operating System

Project Collaborations and Leadership

- 1 .Main Collaborator - Development of Educational Modules for Agricultural Pest, Disease, and Weed Management(2005)
- 2 .Main Collaborator - Development of Educational Modules for Environmental and Sustainable Development Experts in the Agricultural Sector(2005)
- 3 .Main Collaborator - Development of Educational Modules for Agricultural and Environmental Technician Job Series(2005)
- 4 .Main Collaborator - Reporting System Development within the Information Management and Engineering System (Performance of the Deputy for Education and Human Resource Development)(2009)
- 5 .Main Collaborator - Reporting System Development within the Information Management and Engineering System (Database of Locations, Facilities, and Spaces of Educational Complexes/Centers)(2009)
- 6 .Main Collaborator - Documentation of Supervision, Evaluation, and Effectiveness Activities of Short-Term Training Courses for Employees(2009)
- 7 .Main Collaborator - New Agricultural Extension System in Iran(2015)
- 8 .Main Collaborator - Project on Hydrocarbon Pollution in Groundwater of Tehran Watershed Due to Gas Station Leaks - Environmental Organization - Master's Thesis(2003)
- 9 .Collaborator - Study on Nitrate Pollution in Tehran Watershed Due to Chemical Fertilizers - Environmental Organization(2003)
- 10 .Collaborator - Preliminary Study on Oil Pollution Near Underground Oil Reservoirs - University of Tehran (2003)
- 11 .Collaborator - Study on Physicochemical Changes in Southern Iran Coasts Due to Existing Facilities - Soil and Water Conservation Research Institute, Ministry of Jihad-e-Agriculture(2010)
- 12 .Main Collaborator - Study on Water Quality in Alibag Mangrove Forests in Southern India - University of Pune - Contribution specified in published articles(2013)
- 13 .Main Collaborator - Study on Heavy Metal Pollution in Mangrove Forests (Water, Soil, and Plants) - University of Pune - Contribution specified in published articles(2013)

- 14 .Main Collaborator - Study on Hydrocarbon Pollution in Mangrove Forests (Water, Soil, and Plants) - University of Pune - Contribution specified in published articles(2013)
- 15 .Main Collaborator - Study on the Bioremediation Potential of Heavy Metals by Mangrove Trees(2013)
- 16 .Main Collaborator - Study on the Bioremediation Potential of Oil Pollution by Mangrove Trees
- 17 .Main Collaborator - Evaluation of Biodegradation Potential of Indigenous Fungi Isolated from Soil and Sediment in Mangrove Forests
- 18 .Project Leader - Study on the Causes and Trends of Drying of Jazmourian Wetland and Its Role in Dust Production
- 19 .Project Leader - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) in Kerman Province(2021)
- 20 .Main Collaborator - Study on the Causes and Trends of Drying of Wetlands and Its Role in Dust Production (National Project)(2021)
- 21 .Main Collaborator - Study on the Causes and Trends of Drying of Shadegan Wetland and Its Role in Dust Production (Sub-National Project)(2021)
- 22 .Main Collaborator - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) (National Project)(2021)
- 23 .Main Collaborator - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) in Yazd Province (Sub-National Project)(2021)
- 24 .Main Collaborator - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) in Khuzestan Province (Sub-National Project)(2021)
25. Main Collaborator - Study of Ecological Hazards of Selected Rivers in West Azerbaijan, Mazandaran, and Khuzestan Provinces Using Sediment Quality Indices (2021)
26. Main Collaborator - Determination of Physical and Chemical Properties of Soil in Critical Wind Erosion Areas for Establishing Suitable Species Considering Soil Limitations in Hamoun Sistan
27. Main Collaborator - Identification and Monitoring of Dust and Sand Sources (2023)
28. Main Collaborator - Study of the Causes and Trends of Drying of Gavkhouni Wetland and Its Role in Dust Production (Sub-National Project) (2021)
29. Main Collaborator - Identification and Monitoring of Dust and Sand Sources - Sistan and Baluchestan - Iranshahr (2021)
30. Main Collaborator - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) - Sistan Province (Sub-National Project) (2021)
31. Main Collaborator - Monitoring Climatic Factors Affecting Dust and Sand Movement (Wind Erosion) - Baluchestan (Sub-National Project) (2021)
32. Project Leader - Study of Drought Occurrence in Watersheds Leading to Dust Sources and Future Drought Trends (Sub-National Project) (2020)

33. Project Leader - Identification of Synoptic Pattern Changes Producing Dust Storms (Sub-National Project) (2020)
34. Principal Investigator - Study of Surface and Groundwater Quality in Three Watersheds (Karkheh, Karun, and Zohreh-Jarrahi) and Feasibility of Using Unconventional Water and Wastewater in Khuzestan Province (National Project) (2020)
35. Project Leader - Study of Surface Water Quality in the Karun Watershed (Sub-National Project) (2020)
36. Project Leader - Study of Groundwater Quality in the Karun Watershed (Sub-National Project) (2020)
37. Project Leader - Study of Unconventional Water and Wastewater Quality in the Karun, Karkheh, and Zohreh-Jarrahi Watersheds Limited to Khuzestan Province (Sub-National Project) (2020)
38. Main Collaborator - Study of Surface Water Quality in the Karkheh Watershed (Sub-National Project) (2020)
39. Main Collaborator - Study of Groundwater Quality in the Karkheh Watershed (Sub-National Project) (2020)
40. Main Collaborator - Study of Surface Water Quality in the Zohreh-Jarrahi Watershed (Sub-National Project) (2020)
41. Main Collaborator - Study of Groundwater Quality in the Zohreh-Jarrahi Watershed (Sub-National Project) (2020)
42. Main Collaborator - Identification of Dust Production Share from Internal Sources (Sub-National Project) (2020)
43. Main Collaborator - Identification and Tracking of External Dust Sources Affecting Khuzestan Dust (Sub-National Project)
44. Main Collaborator - Detection of Climate Change Trends and Future Changes Based on Various Scenarios in Three Watersheds Leading to Dust Sources (Sub-National Project) (2020)
45. Main Collaborator - Climatic Study of Dust Events in Khuzestan Province (Sub-National Project) (2020)
46. Main Collaborator - Study of Climate Change Trends Related to Dust Phenomenon in Three Watersheds Leading to Dust Sources (Sub-National Project) (2020)
47. Main Collaborator - Monitoring Land Use Changes in Shadegan Wetland and Determining Its Water Rights (2020)
48. Collaborator - Study of Hoor-al-Azim Wetland Changes Over a 33-Year Period (1984-2017) (2020)
49. Collaborator - Quantitative Study of Surface Water Resources in Three Watersheds (Zohreh-Jarrahi, Karun, and Karkheh) for Dust Control in Khuzestan Province (National Project) (2020)
50. Project Leader - Analytical Monitoring of Floods in the Karun Watershed (2020)
51. Main Collaborator - Study of River Regimes in the Karun Watershed (2020)
52. Main Collaborator - Study of River Regimes in the Karkheh Watershed (2020)
53. Main Collaborator - Study of River Regimes in the Zohreh-Jarrahi Watershed (2020)

54. Collaborator - Trend of Agricultural Production, Water Consumption, and Its Productivity in Khuzestan Province (2020)
55. Main Collaborator - Study of Rangeland Management Laws in Internal Dust Production Sources in Khuzestan Province (2021)
56. Main Collaborator - Soil and Wind Erosion Studies in Internal Dust Sources in Khuzestan (2020)
57. Main Collaborator - National Sub-Project: Soil Degradation and Subsidence Studies Due to Groundwater Resources in Iran's Plains (2024)
58. Principal Investigator - Study of Groundwater Quality with Emphasis on Drinking, Irrigation, and Industrial Uses in Iran (2024)
59. Principal Investigator - National Sub-Project: Study of Groundwater Quality with Emphasis on Drinking, Irrigation, and Industrial Uses - Jazmourian Watershed (2023)
60. Main Collaborator - National Sub-Project: Study of Groundwater Quality with Emphasis on Drinking, Irrigation, and Industrial Uses (2024)
61. Project Leader - Study of Groundwater Resources Quantitative Assessment and Zoning in Iran's Plains - Jazmourian Watershed (2023)
62. Main Collaborator - Flood Modeling to Identify High Flood Potential Areas (2023)
63. Main Collaborator - Identification and Monitoring of Dust and Sand Sources - National (2023)
64. Collaborator - Determination of Land Sensitivity to Wind Erosion in Dust and Sand Sources in Sistan (2023)
65. Main Collaborator - Study of Solutions and Implementation of Management Programs to Reduce Dust in Sistan Plain (2023)
66. Main Collaborator - Determination of Physical and Chemical Properties of Soil in Sistan Dust Sources (2023)
67. Main Collaborator - Monitoring Sistan Plain Floods Using Landsat Satellite Images Over a 30-Year Period (2022)
68. Main Collaborator - Study of Sistan Hamouns Changes Over the Period 1984-2020 and Determining Its Water Rights (2022)
69. Main Collaborator - Satellite Monitoring of Dust-Affected Areas in Sistan (2022)
70. Main Collaborator - Study of Snow Cover Area Changes in the Upper Watershed of Sistan Hamouns (Afghanistan) and Its Relationship with Hamouns Water Area Changes (2022)
71. Main Collaborator - Geochemistry and Source Identification of Sediments in Sistan Lakes (2022)
72. Main Collaborator - Study of Agricultural Status in Sistan Plain from the Perspective of Desertification (2022)
73. Main Collaborator - Geological, Sedimentological, and Petrographic Studies of Sistan Plain (2022)
74. Main Collaborator - Network Analysis of Institutional Stakeholders and Participatory Analysis of Challenges and Solutions to Combat Dust Phenomenon in Sistan Region (2022)
75. Main Collaborator - Study of Internal Dust Sources Contribution in Sistan Dust Storms (2022)

76. Project Leader - Detection of Drought Occurrence and Its Prediction in the Coming Decades in Watersheds Leading to Sistan Hamouns (2022)
77. Main Collaborator - Detection of Climate Change Trends and Monitoring Drought and Dust in Zagros Forest Decline Sites in Ilam (2022)
78. Main Collaborator - Detection of Climate Change Trends and Monitoring Drought and Dust in Zagros Forest Decline Sites (2022)
79. Main Collaborator - Quantitative Study and Zoning of Groundwater in Eastern Iran (Hamoun Hirmand Watershed) (2022)
80. Main Collaborator - Synoptic Analysis of Dust in the Hirmand Basin (Sistan Basin)(2022)
81. Main Collaborator - Study of Natural Resources (Rangelands) Regulations Implementation in the Dust Area of Sistan Plain(2022)
82. Socio-Economic Studies of Dust Corridors in Sistan Plain(2022)
83. Project Leader - Study and Analysis of Surface Water Quality in the Hamoun Hirmand Watershed with Emphasis on Drinking, Irrigation, and Industrial Uses(2022)
84. Main Collaborator - Study of Vegetation in Sistan Plain and Analysis of Its Changes for Dust Control and Providing Solutions(2022)
85. Project Leader - Study and Analysis of Groundwater Quality and Its Zoning Using Fuzzy Logic with Emphasis on Drinking, Agricultural, and Industrial Uses in the Hamoun Hirmand Watershed(2022)
86. Project Leader - Study and Evaluation of Geological Formations and Factors Affecting Groundwater Quality in the Hamoun Hirmand Watershed(2022)
87. Main Collaborator - Quantitative and Qualitative Studies of Wastewater in the Hamoun-Hirmand Watershed with Emphasis on Its Use in Dust Stabilization(2022)
88. Main Collaborator - Detection of Climate Change Trends in Watersheds Leading to Sistan in Iran and Afghanistan and Analysis of Future Climate Changes Based on Various Scenarios(2022)
89. Main Collaborator - Wind Speed and Dust Modeling in the Hirmand Basin(2022)
90. Main Collaborator - Quantitative Studies of Surface Water Resources in the Hamoun Hirmand Watershed (2022)
91. Main Collaborator - Study of Climatic Features Related to Dust Phenomenon in the Hamoun Hirmand Watershed(2022)
92. Main Collaborator - Study of Ecological Hazards of Selected Rivers in West Azerbaijan, Mazandaran, and Khuzestan Provinces Using Sediment Quality Indices(2021)
93. Main Collaborator - Evaluation of the Development Potential of Wood Cultivation in Lands Irrigated with Unconventional Water in Southern Tehran with a Focus on Crop Pattern Conversion(2021)

Fields of the Study and Research Conducted

1. Nanotechnology and Education
2. Nanotechnology in Environmental Protection and Natural Resources
3. Study of Crown and Root Cancer in Grapevines by Agrobacterium
4. Quantitative and Qualitative Studies of Water Resources (Surface and Groundwater)
5. Phytoremediation
6. Bioremediation
7. Bioplastics
8. Drought Monitoring and Climatic Factors
9. Land Use Changes
10. Environmental Impact Assessment (EIA)
11. Use of Remote Sensing (RS), Geographic Information Systems (GIS), and Machine Learning (ML) and Deep Learning (DL) Algorithms in Research and Studies

Membership in Editorial Boards of Reputable Scientific Journals

1. Member of the Editorial Board of the International Journal of Agricultural Science & Technology
2. Member of the Editorial Board of the Journal of Chemical, Environmental and Biological Engineering
3. Member of the Editorial Board of the Central Asian Journal of Environmental Science and Technology

Review for Journals

1. Environmental Science and Pollution Research (ESPR) Journal-Springer (WOS/Scopus)
2. Environmental Monitoring and Assessment Journal-Springer (WOS/Scopus)
3. SA Applied Science Journal-Springer (WOS/Scopus)
4. Process Journal-MDPI (WOS/Scopus)
5. Discover Environment -Springer (WOS/Scopus)
6. Agronomy Journal-MDPI (WOS/Scopus)
7. Land Journal-MDPI (WOS/Scopus)
8. IJERPH-MDPI (WOS/Scopus)
9. Iranian Journal of Earth Science (Scopus)
10. Current World Environment Journal
11. Nature of Iran Journal
12. Iranian Journal of Range and Desert Research (ISC)
13. Iranian Journal of Forest and Rangeland Protection (ISC)

Book

1. **Mangrove and Human Activities**, ISBN: 978-3-659-33187-9, Lambert Academic Publishing-2013

Scientific and Technical/Promotional Guidelines

4. Lotfinasabasl, Sakineh; Khosroshahi, Mohammad; Zandifar, Samira; Naeimi, Maryam. 2024. Technical Guidelines for Comprehensive Assessment of Wetland Drying Using Artificial Neural Networks and Remote Sensing (A Novel Approach for Sustainable Wetland Management). Published by the Research Institute of Forests and Rangelands.
5. Naeimi, Maryam; Eftekhari, Alireza; Khalifehzadeh, Rostam; Goohardoust, Azadeh; Ganjali, Mojtaba; Zandifar, Samira; Lotfinasabasl, Sakineh; Dargahian, Fatemeh. 2024. Technical Guidelines for Standards of Using Wastewater in Surface Soil Stabilization for Dust Control. Published by the Research Institute of Forests and Rangelands.
6. Zandifar, Samira; Hashemi Yazdi, Firoozeh; Naeimi, Maryam; Lotfinasabasl, Sakineh; Dargahian, Fatemeh. 2024. Technical Guidelines for Applying Modern Paleoclimatology in Tracking Dust Storms. Published by the Research Institute of Forests and Rangelands.

Prepared Handbook

1. Dargahian, Fatemeh; Lotfinasabasl, Sakineh; Razavizadeh, Samaneh; Zandifar, Samira; Naeimi, Maryam. 2025. Handbook on the Application of Climate Change Detection Methods in Natural Habitats of Iran.

Prepared Technical and Promotional Publication

1. Lotfinasabasl, Sakineh; Dargahian, Fatemeh; Goohardoust, Azadeh. 2024. Degradation of Water Resources in Iran: Causes and Sustainable Solutions. Published by the Research Institute of Forests and Rangelands.

Prepared Promotable Findings

1. Lotfinasabasl, Sakineh. 2022. Identification of Factors Affecting Water Quality with Emphasis on Geological Formations and Factors.

Scientific and Research Articles

1. Lotfinasabasl, S., Gunale, V. R., & Rajurkar, N. S. (2012). Assessment of petroleum hydrocarbon degradation from soil and tarball by fungi. Bioscience Discovery, 3(2), 186-192.

2. Lotfinasabasl, S., Gunale, V. R., & Rajurkar, N. S. (2013). Petroleum hydrocarbons pollution in soil and its bioaccumulation in mangrove species, *Avicennia marina* from Alibaug mangrove ecosystem, Maharashtra, India. *International Journal of Advanced Research Technology*, 2(2), 1-7.
3. Lotfinasabasl, S., & Gunale, V. R. (2012). Studies on heavy metals bioaccumulation potential of mangrove species, *Avicennia marina*. *International Journal of Engineering Science and Technology*, 4(10), 4411-4421.
4. Lotfinasabasl, S., Gunale, V. R., & Khosroshahi, M. (2018). Applying geographic information systems and remote sensing for water quality assessment of mangrove forest. *Acta Ecologica Sinica*, 38(2), 135-143.
5. Dargahian, F., Lotfinasab Asl, S., Khosroshahi, M., & Gohardoust, A. (2017). Determining the share of internal and external resources of dust in Khuzestan province. *Iran Nature*, 2(5), 36-41.
6. Abassi, H., Kashki, M., Rahdari, M. R., Gohardoust, A., & Lotfinasabasl, S. (2020). The features of wind's regime and sand transport potential in Sarakhs Erg. *Iranian Journal of Range and Desert Research*, 27(2), 371-384.
7. Dargahian, F., Teimori, S., Lotfinasbasl, S., & Razavizadeh, S. (2019). Land use changes in the Mansouriyeh Wetland and its relation with the occurrence of drought and dust formation in the Ahwaz Metropolis. *Watershed Management Research*, 32(4), 94-104.
8. Khosroshahi, M., Ebrahimi Khusfi, Z., Gohardoust, A., & Lotfinasabasl, S. (2020). Monitoring the physical surface changes of the Gavkhoni Wetland and its relation with dust and its surrounding sand dunes activity. *Desert Management*, 8(15), 139-160.
9. Dargahian, F., Lotfinasabasl, S., & Khosroshahi, M. (2018). Analysis of the role of internal dust sources in creating critical conditions in Ahvaz with an emphasis on the southeastern area.
10. Saieedifar, Z., Khosro Shahi, M., Gohardust, A., & Ebrahimi Khusfi, Z. (2020). Investigation of the origin and spatial distribution of high dust concentrations and its synoptical analysis in Gavkhooni basin. *Journal of RS and GIS for Natural Resources*, 11(4), 47-64.
11. Lotfinasabasl, S., Gunale, V. R., & Rajurkar, N. S. (2013). Water quality assessment of Alibaug mangrove forest using multivariate statistical technique, Maharashtra, India. NISCAIR-CSIR, India.
12. Dargahian, F., Mousivand, Y., Razavizadeh, S., & Lotfinasabasl, S. (2023). Identifying dust sources affecting Southwestern Iran (Khuzestan Province) using remote sensing techniques and HYSPLIT Model. *Journal of the Indian Society of Remote Sensing*, 51(3), 565-583.
13. Lotfinasabasl, S., Khosroshahi, M., Saeedifar, Z., & Dargahiyan, F. (2019). Precipitation trend analysis and drought assessment of Jazmorian basin using trend analysis methods and optimized drought indices.
14. Dargahian, F., Razavi Zadeh, S., & Lotfinasabasl, S. (2018). The role of water resources management as one of the factors contributing in the dust resource activity amplification in southern and southeast parts of Ahvaz. *Iran Nature*, 3(4), 26-33.

15. Dargahian, F., Lotfinasabasl, S., & Razavizadeh, S. (2019). Factors affecting on the event of sandstorms and dust in Zabul with emphasis on the role of low pressure of Pakistan, Case Study July 2016. *Iranian Journal of Range & Desert Research*, 26(4).
16. Khosroshahi, M., Abtahi, M., Kashki, M., Lotfinasab, S., & Dargahian, F. (2017). Determining deserts domain of Iran aspect of natural environmental factors. *Iranian Journal of Range and Desert Research*, 24(2), 404-417.
17. Lotfinasabasl, S., Gunale, V. R., & Rajurkar, N. S. (2013). Metal pollution assessment in the soil and surface water of Alibaug mangrove forest, Maharashtra, India. *First International Conference on Environmental Crisis and Solutions*, 13-14.
18. Lotfinasabasl, S., Gohardoust, A., Dargahian, F., & Khosroshahi, M. (2022). Analysis of dusty and erosive winds in Kerman province in order to provide a calendar for forecasting and managing dust control. *Iranian Journal of Forest and Range Protection Research*, 19(2), 179-211.
19. Dargahian, F., Khosroshahi, M., & Lotfinasabasl, S. (2021). Potential dangers of drought in Shadegan wetland and Identify areas affected by dust from it. *Journal of Spatial Analysis Environmental Hazards*, 8(2), 1-14.
20. Dargahian, F., Khosroshahi, M., & Lotfinasabasl, S. (2020). Investigating the trend of changes in water area of Shadegan Wetland and its relation to drought occurrence hydrology and sugarcane drainage water (Jarahi Watershed). *Journal of Environmental Studies*, 46(2), 275-293.
21. Dargahian, F., & Lotfinasabasl, S. (2020). Identify trend of changes climatic zones in the watersheds leading to dust source in Khuzestan Province (Karkheh, Karoun and Zohreh-Jarahi). *Iranian Journal of Range and Desert Research*, 27(2), 300-320.
22. Lotfinasabasl, S. (2013). Assessment of human activity on mangrove ecosystem _ case study_ Alibaug mangrove forest. Pune.
23. Dargahian, F., Gohardoust, A., Lotfinasabasl, S., & Teimouri, S. (2024). Determining the contribution of neighboring countries in the emission of dust to Khuzestan province. *Iranian Journal of Range and Desert Research*, 31(1), 41-50.
24. Lotfinasabasl, S., Dargahian, F., Gohardoost, A., & Baharvand, A. H. (2023). Analysis of drought status and its relationship with climate change, Case study: Sarableh oak decline sites, Ilam province. *Iranian Journal of Range and Desert Research*, 30(2), 335-354.
25. Gharibreza, M., Mehdizadeh, M., Masoumi, H., & Dashte-Bozorg, N. A. (2022). Ecological risk assessment of the riverine and deltaic environments (Rozechai River, Urmia Lake, Iran), using sediment quality indices. *Environmental Monitoring and Assessment*, 194(6), 447.
26. Saeedifar, Z., Khosroshahi, M., Jalili, A., Razavizadeh, S., & Dargahian, F. (2021). Analysis of the effect of climatic factors and drought on inflow and outflow from the Khuzestan Plain in the Karun Basin. *Journal of Water and Sustainable Development*, 8(3), 43-54.
27. Lotfinasabasl, S., Dargahian, F., & Khosroshahi, M. (2020). Water quality assessment of Gopal river and its variations in the Maroon basin. *Watershed Engineering and Management*, 12(3), 835-852.

28. Dargahian, F., & Lotfinasab Asl, S. (2020). Temporal and spatial variations of precipitation trend in basins leading to Khuzestan province dust sources. *Iran Nature*, 5(3), 59-67.
29. Saiedifar, Z., Rahimi, M., Khosroshahi, S. L., Khosroshahi, M., & Yazdani, M. (2019). Identification of factors affecting groundwater resources and forecasting groundwater level and its variation in Jazmourian basin.
30. Dargahian, F., Pourhashemi, M., & Lotfinasabasl, S. (2024). Investigating the occurrence of drought in the forest ecosystem of Zagros due to its coincidence with the decline of oak forests. *Iranian Journal of Forest and Range Protection Research*.
31. Yousefi Mobarhan, E., Karimi Sangchini, E., & Lotfinasabasl, S. (2024). Scaling and corrosion quality zoning of groundwater in the aquifer of the Ghorove–Dehgholan Plain. *Journal of Emergy, Life Cycle and System Analysis in Agriculture*.
32. Khosroshahi, M., Saeedifar, Z., Shahbazi, K., Zandifar, S., & Lotfinasabasl, S. (2024). Investigating the trend of temporal and spatial changes of dusty days and determining the contribution of climatic elements on its spread in Iran. *Iranian Journal of Range and Desert Research*, 30(4), 521-540.
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40. Razavizadeh, S., Lotfinasabasl, S., Dargahian, F., & Saeedifar, Z. (2021). The impact of Karkheh Dam and meteorological parameters on the annual and peak regime and flood plains of Karkheh River. *Journal of Watershed Management Research*, 12(24), 236-248.

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42. Dargahian, F., Shiravand, H., & Lotfinasabasl, S. (2021). Determining the role of different climatic factors in the occurrence of internal and external dust in Ahvaz Metropolis using neural-artificial network. *Geography and Environmental Sustainability*, 11(2), 19-34.
43. Saieedifar, Z., Rahimi, M., & Khosroshahi, M. (2021). Identification of areas susceptible to high dust concentrations and their relationship with synoptic factors in Jazmourian basin. *Iranian Journal of Forest and Range Protection Research*, 18(2), 254-273.
44. Dargahian, F., Lotfinasabasl, S., & Khosroshahi, M. (2020). Study of Drought Catchment Hendijan-Jarahee using geostatistics. *Geographical Planning of Space*, 10(37), 14-28.
45. Lotfinasabasl, S., khosroshahi, M., gohardoust, A., Khaksarian, F., & Abbasi, H. (2020). Assessment of koopal river flow and the runoff potential estimation of Southeast dust source of Ahwaz. *Journal of Watershed Management Research*, 11(22), 43-57.
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47. Gunale, V. R., & Lotfinasabasl, S. (2016). Mapping water quality of Alibaug Mangrove Forest Using RS and GIS, Maharashtra, India. *International Conference on Water, Environment and Sustainable Development*.
48. Lotfinasabasl, B. S. (2013). *Mangrove and human activities: An assessment of human activities on mangrove ecosystem*. ISBN-13978-3659331879. Retrieved from <https://amzn.eu/d/0aOcy5Kr>
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54. Dargahian, F., Pourhashemi, M., & Lotfinasabasl, S. (2025). Investigating drought occurrence in the Zagros forest ecosystem considering its coincidence with oak forest decline. Support and Conservation of Forests and Rangelands of Iran. In Press.

55. Abbasi, H. R., Jalili, A., Khosroshahi, M., Fayaz, M., Khaksarian, F., Keneshlou, H., Gohardoost, A., Behnamfar, K., Dinaron, M., Yasrebi, B., Seyyed Akhlaghi, S. J., Dargahian, F., Zandifar, S., Lotfinasabasl, S., Rezvani Zadeh, S., Banj Shafiei, S., Kashizanuzy, L., Ansafigmoghadam, T., Saeedifar, Z., Teimouri, S., Ghasemi Ariyan, Y., Bagheri, N., Keneshlou, F., Naeimi, M., Arami, M. H., & Ali Mahmoudi Sarab, S. (2025). Land management methods for reducing dust in the southeast Ahvaz hotspot. Support and Conservation of Forests and Rangelands of Iran. Accepted.

56. Lotfinasabasl, S., Gohardoust, A., Dargahiyan, F., & Zandifar, S. (2025). Comprehensive evaluation of groundwater quality and drought susceptibility in Jazmurian Basin, Iran using integrated statistical GIS analysis. Scientific Reports.

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Presentation of Articles and Participation in Conferences, Symposia, and Seminars

1. Soleimanpour, Seyed Masoud; Lotfinasabasl, Sakineh; Rahmati, Omid; Motamednia, Mahbubeh. 2024. Seasonal and Annual Changes in Groundwater Quality of the Ernan-Dehj Watershed. Seventh National Conference on Soil and Watershed Conservation. Vol. 7, pp. 1-8.

2. Saleh, Iman; Lotfinasabasl, Sakineh; Khazaei, Majid; Soleimanpour, Seyed Masoud. 2024. Study on Groundwater Quality and Factors Affecting Its Changes in the Maharlu-Bakhtegan Watershed. Seventh National Conference on Soil and Watershed Conservation. Vol. 7, pp. 1-9.

3. Soleimanpour, Seyed Masoud; Lotfinasabasl, Sakineh; Rahmati, Omid; Motamednia, Mahbubeh. 2023. Temporal Fluctuations in Groundwater Quality of the Bahadoran Watershed. Eighteenth National Conference on Watershed Science and Engineering of Iran. Vol. 18, pp. 1-6.

4. Soleimanpour, Seyed Masoud; Lotfinasabasl, Sakineh; Rahmati, Omid; Motamednia, Mahbubeh. 2023. Relationship between Salinity and Groundwater Level in the Bardsir Watershed. Twelfth National Conference on Rainwater Harvesting Systems. Vol. 12, pp. 1-10.

5. Soleimanpour, Seyed Masoud; Lotfinasabasl, Sakineh; Rahmati, Omid; Motamednia, Mahbubeh; Naeimi, Maryam; Zandifar, Samira. 2023. Evaluation and Zoning of Groundwater Quality with Emphasis on Drinking and Agricultural Uses in the Rafsanjan Watershed. Sixth National Conference on Soil and Watershed Conservation. Vol. 6, pp. 1-12.

6. Dargahian, Fatemeh; Gohardoust, Azadeh; Razavizadeh, Samaneh; Lotfinasabasl, Sakineh. 2022. Study of Drought Occurrence in Oak Decline Monitoring Sites in Chaharmahal and Bakhtiari Province. Fourth National Conference on Forests of Iran. Vol. 4, pp. 658-672.

7. Soleimanpour, Seyed Masoud; Lotfinasabasl, Sakineh; Motamednia, Mahbubeh; Rahmati, Omid; Zandifar, Samira; Naeimi, Maryam. 2022. Study of the Impact of Groundwater Level Changes on

Quality Parameters in the Rafsanjan Study Area. Eleventh National Conference on Rainwater Harvesting Systems. Vol. 11, pp. 1-7.

8. Soleimanpour, Seyed Masoud; Zandifar, Samira; Motamednia, Mahbubeh; Rahmati, Omid; Naeimi, Maryam Lotfinasabasl, Sakineh. 2022. Drought Assessment Using GRI and SDI Indices in the Zarand Study Area. Eleventh National Conference on Rainwater Harvesting Systems. Vol. 11, pp. 1-7.

9. Abbasi, Hamid Reza; Jalili, Adel; Khosroshahi, Mohammad; Fayyaz, Mohammad; Khaksarian, Farhad; Seyyed Akhlaghi Shal, Seyyed Jafar; Dargahian, Fatemeh; Zandifar, Samira; Lotfinasabasl, Sakineh; Razavizadeh, Samaneh; Goohardoust, Azadeh; Kashi Zanouzi, Leila; Naeimi, Maryam; Enasafi Moghaddam, Tahereh; Ganjali, Mojtaba; Ghasemi Arian, Yaser. 2021. Land Sensitivity to Wind Erosion and Mitigation Strategies in Sistan. Fifth National Conference on Wind Erosion and Dust Storms. Vol. 5, pp. 1-16.

10. Razavizadeh, Samaneh; Dargahian, Fatemeh; Lotfinasabasl, Sakineh. 2019. Providing Land Use Change Scenarios and Assessing Their Impact on Flood Potential (Case Study: Taleghan Watershed). Fourteenth National Conference on Watershed Science and Engineering of Iran. Vol. 14, pp. 1-9.

11. Lotfinasabasl, Sakineh; Dargahian, Fatemeh. 2018. Novel Technologies for Environmental Pollution Cleanup. Fourth International Conference on Environmental Engineering with Focus on Sustainable Development. Vol. 4, pp. 1-8.

12. Lotfinasabasl, Sakineh; Dargahian, Fatemeh. 2018. Mangrove Forests, Ecological, Economic, and Social Importance and Threats. Fourth International Conference on Environmental Engineering with Focus on Sustainable Development. Vol. 4, pp. 1-9.

13. Dargahian, Fatemeh; Timouri, Sara; Lotfinasabasl, Sakineh; Razavizadeh, Samaneh. 2024. Prediction of Precipitation Changes in Watersheds Leading to Sistan Hamouns for the Coming Decades Based on Various Climate Change Scenarios. International Conference on the Environment of Hamoun International Wetlands.

14. lotfinasabasl, s.; Gunale, V.R. 2016. Mapping Water Quality of Alibaug Mangrove Forest Using RS and GIS, Maharashtra, India. International Conference on Water, Environment and Sustainable Development. 1-10

15. lotfinasabasl, s.; Gunale, V.R.; Rajurkar, N.s. 2012. Metal Pollution Assessment in the Soil and Surface Water of Alibaug Mangrove Forest, Maharashtra, India . The 1International conferences of environmental crisis and its solutions. 275-291

Participation:

- 1- International conference on the effect of Science on Globalization -India-2011
- 2- International conference on Research & New Perspective Developing Science-India-2012
- 3- Seminar on Science and Society-India-2012
- 4- Seminar on Environmental Pollution : Monitoring Assessment and Control-India-2012
- 5- Seminar on Strategic Approaches toward Environment-India-2011
- 6- Seminar on Environment and it's Conservation –India-2010
- 7- National Conference on the Development and Application of Biological Materials and Optimal Use of Fertilizers and Pesticides (February 2003) Organized by the Ministry of Jihad-e-Agriculture.

Familiarity with Software and Web-Based Platforms:

- ICDL Seven Skills
- AutoCAD
- Statistical Software: SPSS & Minitab
- Ecological Software: Biodiversity Pro
- ArcGIS
- ENVI
- WRPLOT, ROCKWARE, DIP, DRINC
- Computer Networks
- R Studio
- Google Earth Pro
- Google Earth Engine
- Google Analytics
- Google Data Studio
- Google Colab

Familiarity with Foreign Languages:

- English (good proficiency in speaking and writing in English.)

"Participation in attended workshops and training courses"

Row	Course Title	Year	Duration (Hours)
1	Newly Employed Experts	2000	136
2	Evaluation Patterns	2005	54
3	Introduction to SPSS Software	2006	30
4	Study and Research Methods	2006	36
5	Educational Productivity	2008	36
6	Advanced GIS	2008	51
7	Evaluation and Continuous Improvement of Educational Activities	2009	36
8	Advanced TOEFL (English language)	2009	80
9	Management of Growth Centers, Processes, and Implementation Methods	2009	8
10	Empowerment of Educational Liaisons	2009	16
11	Educational Needs Assessment Process in Production and Service Organizations	2009	16

12	Effective Training Management Tools Based on ISO 10015 Standard	2009	16
13	The Strategy of the Islamic Government	2009	20
14	Introduction to In-Service Training Instructions and Type II Certificates	2009	8
15	Creativity and Innovation in Education	2009	8
16	Effective Training Process and Training Effectiveness	2010	16
17	Qualitative Guidance of Activities to Increase Productivity (1)	2010	8
18	Qualitative Guidance of Activities to Increase Productivity (2)	2010	8
19	Effective Training and Training Effectiveness	2010	16
20	Introduction to Web-Based Training Management System and Learner System	2010	8
21	Principles of Teamwork, Self-Management, and Managing Others	2013	16
22	Introduction to E-Learning System Software	2013	6
23	Management and Updating of Sub-Portals under the Research Organization	2013	8
24	Management and Updating of Sub-Portals under the Research Organization (V3, 7-9)	2013	8
25	Principles and Techniques of Technology Transfer Negotiation	2013	12
26	Green Management	2014	12
27	Workshop on Climate Change and Low-Carbon Technologies	2014	8
28	Workshop on Climate Change and Low-Carbon Technologies	2014	8
29	Introduction to Organizational Process Management	2014	12
30	Launching the Research, Education, and Extension Management System	2015	8
31	Educational and Career Counseling	2015	24
32	Organizational Behavior	2015	6
33	Formulating the Sixth Development Plan with a Systems Thinking Approach	2015	3
34	Science and Technology Policy and Planning with a Systems Approach	2015	3
35	Application of Information Technology (IT, ITC) and Communication in Extension	2015	24
36	Familiarization with Laws, Regulations, and Directives	2016	8
37	Application of Information Technology (IT & ITC) in Extension	2015	24
38	Persian Article Writing	2016	16
39	Introduction to Unique Species of the National Botanical Garden of Iran	2016	24
40	English Article Writing	2016	8
41	English Article Writing Based on ISI Standards	2016	12
42	Introduction to the Scientometrics System of TAT Organization	2017	4
43	Empowerment of Newly Recruited Faculty Members	2017	16
44	Information Technology - Concepts and Overview of E-Government	2017	8
45	Information Technology - Network and Information Security in Organizations	2017	8
46	Professional and Administrative Computer Skills	2017	22
47	Advanced Geographic Information System (GIS)	2017	18
48	Soil, Water, and Plant Sampling	2017	24
49	Transfer of Extension Findings	2017	8
50	Introduction to GPS and Its Applications	2017	24
51	One-Week Executive Research Workshop for New Faculty Members	2017	44
52	Sediment Pollution and Estimation of Ecological Risks	2017	20
53	Introduction to Islamic Teachings 3 (Islamic Political Thought)	2017	16

54	Application of Google Earth in Natural Resources and Water	2017	12
55	Technical Analysis in Agricultural Machinery Management and Engineering	2018	16
56	Selected Technical and Engineering Points in Greenhouses	2018	8
57	Reducing Agricultural Product Waste as a Main Strategy in Food Security	2018	8
58	Irrigation and Drainage Networks in Iran	2018	16
59	Management of Agricultural Water Resources	2018	16
60	Introduction to Programs, Plans, and Research Achievements of the Forest Research Institute	2018	88
61	Familiarization with Technical and Management Requirements of ISO 17025	2018	16
62	Familiarization with Promotion and Promotion Regulations for Faculty Members	2018	8
63	Integrated Coastal Zone Management (ICZM)	2018	16
64	Quality Assurance in Laboratory Results	2018	24
65	Introduction to Excel Software	2018	24
66	Internal Audit of Laboratory Quality Systems Based on ISO/IEC 17025	2018	12
67	First Aid and Emergency Assistance	2018	12
68	Continuous Learning (Multimedia)	2018	18
69	Organizational Leadership (Multimedia)	2019	24
70	Neural Networks and Their Applications in Natural Resources	2019	8
71	Introduction to DOAJ Citation Database	2019	8
72	Introduction to Islamic Teachings 5 (History of Science and Islamic Civilization)	2019	16
73	Reporting and Documenting Administrative Violations	2021	6
74	Principles of Plant Nutrition and Symptoms of Nutrient Deficiency	2022	36
75	Familiarization with Contract Laws and Labor Regulations	2023	36
76	Geostatistics	2021	36
77	Design and Management of Forest Parks	2021	36
78	Production and Maintenance of Range Plant Seeds	2024	24
79	Principles and Methods of Conservation and Restoration of Natural Resources	2023	18
80	Remote Sensing (RS) and Geographic Information System (GIS)	2022	36
81	Review of Plant Systematic Principles	2022	18
82	Financial Accounting for Non-Financial Managers	2019	8
83	Introduction to R Software and Its Application in Statistics	2019	12
84	Soil Testing, Fertility Assessment, and Fertilizer Requirement Determination	2020	30
85	Biological Threats in Agriculture from a Passive Defense Perspective	2020	8
86	Methods of Plant Identification Using Floristic Resources	2021	24
87	Analysis of Biodiversity Data and Ecological Niche Modeling	2020	24
88	Modern Approaches in Public Relations	2020	16
89	Shortest Path in GIS Projects	2021	8
90	Modeling Natural Resource Projects in ArcGIS	2021	8
91	Cyber Defense	2021	8
92	Methods of Collecting Natural Resource Plant Seeds	2022	16
93	Fundamentals of Network Analysis and Its Application in Natural Resources	2019	16
94	Establishment of Performance Management System	2020	32

95	Introduction to Concepts, Principles, and Planning of Crop Patterns	2023	12
96	Artificial Intelligence and Its Application in Agricultural Research	2024	6
96	Artificial Intelligence and Its Application in Agricultural Research	2024	6