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## EDUCATION

**1987-1991:** High school diploma natural science (Razi **High School**)

**1992-1997:**B. S. Agriculture engineering (agronomy and plant breeding) Tehran university (University College of Agriculture & Natural Resources)

**1997-1999:** M. Sc. Natural Resources engineering (arid land management) from Tehran university (Institute research center for coexistence with desert)

**2013:** PhD Natural Resources engineering (Desertification and Sustainable Land Management), Tehran University.

## WORKSHOP AND SHORT-TERM TRAINING COURSES (MORE THAN 700 HOURS)

- How can work with GPS and field devices (in Natural Resources), (24 hours)
- Principles of applying research findings in agricultural education (24 hours)
- Familiarity with new approaches in agricultural education (8 hours)
- Geographic Information Systems and Remote Sensing (GIS & RS) (36 hours)
- GPS training (16 hours)
- Policy foundations for the development of agricultural education(24 hours)
- Application of statistics in education(36 hours)
- Principles of using Google earth in natural resources and soil water protection(12 hours)
- Understand the guidelines and rules of agricultural water(36 hours)
- Google earth and its application in agriculture and natural resources(36 hours)
- New approaches to public administration(6 hours)
- Empowerment and training of future managers(8 hours)
- Climate change and its effects on agriculture(8 hours)
- Entrepreneurship(6 hours)
- Familiarity with the application of nanotechnology in agriculture(8 hours)
- Commercialization of research(24 hours)
- News reporting(6 hours)
- Preparation and processing of medicinal and aromatic plants(18 hours)
- Advanced research method(18 hours)
- Application of unmanned aerial vehicles (UAVs) in agriculture and natural resources(18 hours)
- Familiarity with training policies, expectations and strategies for goals and programs(16 hours)
- Explain the position of senior researcher in the system of promotion of natural resources and agriculture(8 hours)
- Assessment and evaluation of educational and research works(18 hours)
- Effective communication techniques(8 hours)
- Principles and methods of negotiation and mediation in the sustainable management of natural resources(16 hours)
- Principles and foundations of passive defense(8 hours)
- Advanced applications of Excel software(24 hours)
- Familiarity with the latest research findings in the field of agriculture(12 hours)
- Statistical analysis using SPSS software(24 hours)
- Familiarity with the production and publication of agricultural APPs(8 hours)
- Soil testing and fertility assessment and fertilizer requirements(30 hours)
- Familiarity with the principles of HACCP and GMP in the food industry(12 hours)

## **EMPLOYMENT & WORK EXPERIENCE**

### **LONG-TERM EXPERIENCE:**

**1997-2002:** The member of scientific board in high education institute of technical and vocational Tehran Iran.

#### **In sections**

- Consultant of New Energy Group in Natural Resources, Advisor for the rehabilitation and operation of arid and semi-arid areas
- Consulting scientific sources
- Advisor to the Department of Natural Resources, Water and Soil

**2002-2003:** Manager of watershed management office of Jihad–E-agriculture in Kalat, Iran

**2003- 2012:** Lecturer and researcher of Natural Resources, Water and Soil Department of Khorasan-e- Razavi Agriculture and Natural Resources of Research and Education Center, Mashhad, Iran

**2012- 2020:** Head of Natural Resources, Water and Soil Department of Khorasan-e-Razavi Agriculture and Natural Resources of Research and Education Center

**2010 -2020:** Asia Ecosystem Institute Project Manager in Afghanistan

Monitoring and evaluation of projects with UNODC and DACAAR in Afghanistan

- Evaluation and monitoring of rangeland projects in Kohsan region of Heart
- Land use mapping for alternative livelihoods in the villages of Kohsan district
- Meteorological station to control desertification in Heart
- Short-term training of DACAAR’s experts in fields of Greenhouses and Natural resources
- Training on ISO standards for agriculture and natural resources in Heart (ISO 9001 and 3632)
- Management of study tours and short training courses for the Ministry of Agriculture and Livestock of Afghanistan in Iran

### **SHORT-TERM (TEMPORARY) EXPERIENCE:**

- Consultant of vegetation studies in the detailed and executive watershed management project under the supervision of the General Department of Natural Resources of Khorasan Razavi, Fadisheh region of Neishabour

- Consultant of erosion and sediment studies in the detailed and executive desertification project under the supervision of Khorasan Razavi General Department of Natural Resources, Ferdows region

- Consultant of hydrological studies in the detailed and executive watershed management project under the supervision of the General Department of Natural Resources of North Khorasan, Jajarm region

- Advisor for studies of water resources and hydrology in the project of evaluating the success of watershed management projects carried out under the supervision of the Rangelands and Watershed Management Organization, Sistan and Baluchestan Province, Nikshahr County

- Consultant of water resources and hydrology project in Hezar Masjed tourist area, executive phase

- Supervisor of the project of study of hydrology and water resources, integration and planning in Al-Mahdi watershed, Mashhad city,

- Supervisor of the project of studying climatology, integration and planning in Al-Mahdi watershed, Mashhad city

- Supervisor of Erosion and Sediment Study Project, Integration and Planning in Al-Mahdi Watershed, Mashhad

- Supervisor of the project of studying hydrology and water resources, integration and planning of Khalaj watershed, Mashhad city

- Supervisor of Air and Climatology Study, Integration and Planning Project in Khalaj Watershed, Mashhad

- Supervisor of Erosion and Sediment Study Project, Integration and Planning in Khalaj Watershed, Mashhad

- Supervisor of the project of studying hydrology and water resources, integration and planning in the watershed of Golestan Dam, Mashhad city
- Supervisor of the project of studying air and climatology, integration and planning in the watershed of Golestan Dam, Mashhad city
- Supervisor of erosion and sediment study project, integration and planning in Golestan dam area, Mashhad city
- Project Supervisor of Hydrology and Water Resources Study, Integration and Planning in Cheshmeh Pooneh Watershed, Mashhad
- Supervisor of air and climatology study project, integration and planning in Cheshmeh Pooneh watershed, Mashhad city
- Supervisor of Erosion and Sediment Study Project, Integration and Planning in Cheshmeh Pooneh Watershed, Mashhad
- Project Supervisor of Hydrology and Water Resources Study, Integration and Planning in Zakaria Basin, Mashhad
- Supervisor of Air and Climatology Study Project, Integration and Planning in Zakaria Watershed, Mashhad
- Supervisor of Erosion and Sediment Study Project, Integration and Planning in Zakaria Watershed, Mashhad

**RESEARCH PROJECTS:**

- Determining the economic size and social units of the rangeland base in three provinces of Lorestan, Markazi and Semnan in 1996 and 1997
- Application of organic mulches and polyethylene in the production of agricultural products in Kashan region in 1998
- National project for the development of educational standards for rural and agricultural occupations in the years 2000 to 2002
- Use of mineral and organic soil cover in agricultural production in Kerman region in 2002 to 2003
- Investigating the relationship between pastoralists' knowledge and land degradation in Mashhad rangelands in 2007
- The effect of IBA on rooting of juniper cuttings in 2008
- Adaptation and growth of some medicinal and aromatic plants in environments with heavy elements 2009
- Investigation of rapid growth of poplar tree cultivars through irrigation with municipal wastewater in 2010
- Monitoring sources of dust and sand in Iran (Khorasane Razavi) in 2018-2019

## REFERENCES (PUBLICATION AND PRESENTATION)

### CONFERENCE PROCEEDING PUBLICATION:

Year	Title	Publishers	Location
2015	Soil and vegetation study of Golestan basin of Mashhad	The first research congress on the application of modern sciences in geographical studies of Iran	Mashhad
2014	Investigating the environmental effects of land degradation in western Afghanistan on Iran	The Second National Conference on Environment, Energy and Biological	Tabriz
2014	Use of rainfall reserve to improve and rehabilitate rangelands (Case study of Chah Hossein rangeland in Sabzevar)	The Second National Conference on Environment, Energy and Biological	Tabriz
2014	Evaluation and preparation of wind erosion map (Sabzevar case study)	The Second National Conference on Desert with the approach of managing arid and desert areas	Semnan
2019	Tourist attractions of medicinal plants and its role in empowering rural women	National Conference on Women and Rural Tourism Development	Kashmar
2015	Use of flood water to improve the quantitative and qualitative characteristics of soil and vegetation Case study - Jahanabad Torbat-e Jam	Fourth International Conference on Rainwater catchment systems	Mashhad
2015	Evaluation of flood distribution on the social and economic situation of Jahanabad Torbat Jam watershed	Fourth International Conference on Rainwater catchment systems	Mashhad
2015	Evaluation of the efficiency of artificial neural network in estimating suspended sediments (Case study: Torbat Heydariyeh Senobar watershed)	2nd International Conference on New Findings in Agricultural Sciences, Natural Resources and Environment	Mashhad
2015	Evaluation of desertification intensity using IMDPA model: A case study of Torbat-e-Jam watershed in Khorasan Razavi	The first annual conference on architectural, urban planning and urban management research	Mashhad
2015	Evaluation of soil and land potential of Quchan watershed	The first research congress on the application of modern sciences in geographical studies of Iran	Mashhad
2013	Identification of dust centers in the east of Khorasan Razavi province	The first international conference on particulate matter, management of factors and consequences	Khorramabad
2012	Rehabilitation of juniper forest in semi-arid region using rainfall	The first national conference on rainwater catchment systems in Iran	Mashhad
2012	Strategic management of rainwater harvesting with the help of SWOT	The first national conference on rainwater catchment systems in Iran	Mashhad
2012	Investigation of rangeland degradation and vegetation status in Afghanistan	Sixth National Conference on World Environment Day	Tehran
2012	The role of tourism in rural development	Sixth National Conference on World Environment Day	Tehran
2011	Investigating the relationship between rangeland owners' knowledge and land erosion and destruction	The Second National Conference on Sustainable Rural Development	Hamedan
2010	Identification of dust centers by orientation and location methods	Fourth National Conference on World Environment Day	Tehran
2009	Aqueduct and reservoir is a device for water management in arid and semi-arid regions	Kanduj Magazine in three languages: Persian, English and German	University of Tehran
2009	The role of rangelands in biodiversity and the study of wildlife dynamics	National Forests and Rangelands Research Institute	Tehran

2009	Investigation of the effect of fertilizer spraying on the production of summer pastures Case study of Benzsam Gulogah	National Forests and Rangelands Research Institute	Tehran
2009	Mapping drought severity by variation of secondary metabolism on range plants	2009, The 2nd International conference of WATER, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENT IN ARID AND SEMI-ARID ZONES	Yazd
2009	Application of MEF for Estimating Water Balance in Arid Ecosystem	2009, The 2nd International conference of WATER, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENT IN ARID AND SEMI-ARID ZONES	Yazd
2009	Orientation and location of wind sediments in the citadel of Ferdows Castle	Fifth National Conference on Watershed Management Science and Engineering with a focus on sustainable natural disaster management	Gorgan
2009	Environmental study of habitat and ecology of growing plant in Khorasan Razavi	Third National Conference on World Environment Day, University of Tehran	Tehran
2007	Influence of IBA hormone and planting bed on propagation of Juniperus excelsa M. Bieb cuttings,	2007, proceeding of Fifth International Conference Propagation of Ornamental Plants "Sofia, Bulgaria	Bulgaria
2008	Estimating Water Budget in Arid Land by Modified Experimental Formula	2008, The 3rd International Conference on Water Resources and Arid Environments and the 1st Arab Water Forum, Riyadh, Saudi Arabia	Saudi Arabia
2008	Zayandehrud watershed is a planning model for achieving sustainable development	National Conference on Comprehensive Management of Isfahan Zayandehrud Watershed	Esfahan
2008	The Role of Education with Entrepreneurship and Sustainable Development in Natural Resources Case Study of Khorasan Razavi Ranger Society	National Conference on Entrepreneurship Development in Scientific-Applied Agricultural Education	Mashhad
2007	Institutionalizing jihadi culture in the direction of non-governmental organizations	National Conference on Jihadi Culture and Management	Tehran
2006	Planning model for achieving sustainable development in the watershed to achieve the goals of the vision document of the Islamic Republic of Iran on the horizon of 1404	National Conference on the Vision Document of the Islamic Republic of Iran on the Horizon of 1404 Capacities and Needs - Challenges and Opportunities	Tehran
2004	Criteria for compiling scientific-applied texts by content analysis method	Fifth Conference on Scientific-Applied Education	Shiraz
2002	Breed of rangeland plants	Proceedings of the First National Conference on Livestock and Rangeland Management Research	Semnan
2000	Optimal use of water resources by using soil cover in the production of agricultural products	The first national conference to study strategies to deal with water shortage and drought	Kerman
2000	Application of soil cover in arid and semi-arid ecosystems	Proceedings of the Regional Conference on Sustainable Development in Desert Ecosystems	Yazd

#### **BOOKS AND JOURNALS PUBLICATION:**

- 2002 Volume 33 Iranian Journal of Agricultural Sciences, Comparison of the effect of polyethylene and organic soils on cotton yield in Kashan region
- 2002 No. 10 Journal of Scientific-Applied Education, Hamoon Wetland, a spring of flowing sands
- 2002 No. 9 Journal of Scientific-Applied Education, Golestan in the context of floods - Scientific analysis of the causes of floods in Golestan province
- 2003 No. 13 and 14 Journal of Scientific-Applied Education, Desert is a progressive phenomenon
- 2009, the traditional Qanat and waterStorage, the mechanisms for the management of water in the arid and semi arid zones, Journal of Kandooj, 8th ISSU
- 2014, Integrated Agro pasture management, Asaar Nafis publication ISBN978-600-5299-700
- 2019, Land Use Mapping : Afghanistan Herat province Kohsan, Publisher LAP Lambert Academic Publishing, ISBN13 9786202196772

#### **CONFERENCES:**

- Nejadmohammad Namaghi, 2014, Using of Precipitation infiltration for reclamation of rangeland (Case study: Chah-Hosseins Rangeland of Sabzevar/Iran)
- Nejadmohammad Namaghi, 2014, Photomapping: a bioengineering technology to reduce adverse environmental impacts of landfills especially in arid and semi arid region
- Nejadmohammad Namaghi, 2009, mapping drought severity by variation of secondary metabolism on range plants, The 2nd International conference of WATER, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENTIN ARID AND SEMI-ARID ZONES 2009
- Nejadmohammad Namaghi, 2009, Application of MEF for Estimating Water Balance in Arid Ecosystem, The 2nd International conference of WATER, ECOSYSTEMS AND SUSTAINABLE DEVELOPMENTIN ARID AND SEMI-ARID ZONES 2009
- [Nejadmohammad Namaghi](#) A. R., M. Esmaeilnia, Gh. Jalali, M. Hoseini, and M. Tabari, 2007, Influence of IBA hormone and planting bed on propagation of *Juniperus excelsa* M. Bieb cuttings, proceeding of Fifth International Conference "Propagation of Ornamental Plants" Sofia, Bulgaria
- [Nejadmohammad Namaghi](#) A. R., Z. Gholizade, Estimating Water Budget in Arid Land by Modified Experimental Formula (MEF): Case Study, TORBATEJAM, proceeding of The 3rd International Conference on Water Resources and Arid Environments (2008) and the 1st Arab Water Forum, Riyadh, Saudi Arabia
- Nejadmohammad Namaghi, A. R., 2007, A. R., Study of plant growth regulators IBA on vegetative propagation of *Juniperus excelsa*, 2<sup>nd</sup> national congress of Ecological agriculture, Gorgan, Iran.
- Nejadmohammad Namaghi, A. R., 2003, Hamoon pond bed of sandstorm, journal of science of vocational education, high education Institutes of Jehade-e- agriculture.
- Nejadmohammad Namaghi, A. R., 2003, Phenomenon of desertification in iran, journal of science of vocational education, high education Institutes of Jehade-e- agriculture.
- Nejadmohammad Namaghi, A. R., 2002, Flood in Golestan province, journal of science of vocational education, high education Institutes of Jehade-e- agriculture.
- Nejadmohammad Namaghi, A. R., 2002, Method of range plants breeding, 1<sup>st</sup> national congress of range management and livestock researches, Semnan, Iran.
- Nejadmohammad Namaghi, A. R., 2000, The Application of mulch in Agricultural Ecosystem in Arid and Semi-arid Regions, Regional symposium on sustainable development of desert communities, Yazd, IRAN.

## **TEACHING ACTIVITIES**

For more than 18 years As a university lecturer (University of Applied Sciences, Birjand University, Kashmar University, Torbat Heydariyeh University, Saharkhiz University, non-profit universities)

### **SOME OF THE TOPICS TAUGHT INCLUDE:**

- Methods of rehabilitation of dry areas
- Natural resource planning
- Weather and climatology
- Soil science
- Rehabilitation of arid and semi-arid regions
- Rainwater harvesting methods
- Relationship between soil and plant water
- Biological rehabilitation of watersheds
- Biological rehabilitation operations of watersheds
- Water and soil protection
- Integrated management of agriculture and rangeland
- Water and soil conservation
- Seed production and storage of rangeland plants
- Specialized language of natural resources
- Geomorphology
- Application of computer in natural resources
- Principles of water and soil management
- Watershed management in semi-arid regions
- Assessment of lands and soils
- Weather and Climatology- Water, soil and plant relationship
- Arid land reclamation
- Value Engineering

### **CAREER OBJECTIVE:**

First rank in Ms Sc. Exam

First rank in Ph.D. Exam

Persuasion for teaching for tow year in 2006 and 2007