Sharif Joorabian Shooshtari

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Personal Information:

Birth Date: 10-22-1985

Place of birth: Ahvaz, Iran

Nationality: Iranian

Home Address:

Shaghayegh 3 Alley, Erfan Sq, Doudej,

Shiraz, Iran.

Mobile: *+98-936 360 9509*

Work Address:

Department of Nature Engineering,

Agricultural Sciences and Natural

Resources University of Khuzestan,
Mollasani, Iran. Postal Code: 6341773637.

Education:

2013-2017: Ph.D. degree of Environmental Sciences, dissertation on "Simulating the Impacts of Future Land Use, Climate Change, Landscape Metrics, and Spatial Process in Landscape Transformation on Surface Water Quality in the Neka River Basin, northern Iran", Malayer University, Malayer, Iran.

GPA: 19.38/ 20 (A). **Class rank: 2nd**

2009-2012: M.Sc. degree of Environmental Sciences, thesis on "Modelling of Land Use Changes Using LCM in GIS Environment (Case Study: Neka River Basin)", Tarbiat Modares University, Noor, Mazandaran, Iran.

GPA: 18.49/ 20 (A). **Class rank: 2nd**

2006-2009: Bachelor's degree in Natural Resources Engineering-Environment at Yazd University, Ardakan, Yazd, Iran.

GPA: 18.44/ 20 (A). **Class rank: 1nd.**

Scientific leadership:

Scholarship, from the Ministry of Science, Research, and Technology of Iran and the National Elites Foundation, for visiting researcher since June 2016-May 2017.

Visiting research scholar, Department of Environmental Hydrology, Climate and Human Activity Interactions, IPE- CSIC (Spanish National Research Council), Zaragoza, Spain. June 2016-May 2017.

Obligatory references:

During my M.Sc. thesis at Tarbiat Modares University

Supervisor: Professor Seyed Mohsen Hosseini

Hosseini@europe.com

During my Ph.D. dissertation at Malayer University

Supervisor: Assistant Professor Kamran Shayesteh

Ka_shayesteh@yahoo.com

Advisor: Assistant Professor Mahmood Azari (Ferdowsi University of Mashhad)

Azarimahmood@yahoo.com

Other references:

Juan Ignacio López-Moreno, IPE, CSIC, Zaragoza, Spain (during my sabbatical):

nlopez@ipe.csic.es

Relevant Courses:

Environmental Impact Assessment (EIA)	Landscape Planning
Land Use Change Modeling	GIS & RS
Satellite Monitoring	Water Quality Modeling
Climate Change Modeling	Ecosystem Services Modeling

Computer and Internet Knowledge:

Software: ArcGIS 10.8.2, Q GIS, IDRISI Selva, Google Earth Engine, SPSS, Endnote
Proficient in internet research
Familiar with online resources such as, ProQuest, Science Direct, Scopus, Springer, Wiley.

Peer-Reviewed Publications:

Joorabian Shooshtari, S., Hosseini, S.M., Esmaili-Sari, A., Gholamalifard, M. (2012). Monitoring Land Cover Change, Degredation and Restoration of the Hyrcanian Forests in Northern Iran (1977–2010). International Journal of Environmental Sciences, 3 (3), 1038–1056.

Gholamalifard, M., Zare-Maivan, H., **Joorabian Shooshtari, S**., Mirzaei, M. (2012). Monitoring Land Cover Changes of Coastal Areas of Northern Iran (1988-2010): A Remote Sensing Approach. Journal of the Persian Gulf (Marine Science), 3 (10), 47–56.

Gholamalifard, M., **Joorabian Shooshtari, S**., Hosseini Kahnouj, s.H., Mirzayi, M. (2012). Land Cover Change Modeling of Coastal Areas of Mazandaran Province using LCM in a GIS Environment. (Abstract in English). Journal of Environmental Studies, 38 (64), 109–124.

Gholamalifard, M., **Joorabian Shooshtari, S**., Hosseini Kahnouj, s.H., Bali, A., Delshab, H. (2013). Application of Kappa Index of Agreement (KIA) for Monitoring of Land Cover Changes in Coastal Areas of Bushehr Province (Time Period 1987–2011). (Abstract in English). Journal of Oceanography, 3 (12), 63–75.

Joorabian Shooshtari, S., Esmaili-Sari, A., Hosseini, S.M., Gholamalifard, M. (2014). Application Logistic Regression and Markov Chain in Land Cover Change Prediction in the East of Mazandaran Province. (Abstract in English). Journal of Natural Environment (Natural Resources), 66 (4), 351–363.

Gholamalifard, M., **Joorabian Shooshtari, S**., Abkar, A., Naimi, B. (2014). Comparison of Logistic Regression and Artificial Neural Network Algorithms in Land Cover Transition Potential Empirical Modeling of Coastal Areas of Mazandaran Province. (Abstract in English). Environmental Researches, 5 (9), 167–176.

Gholamalifard, M., Mirzayi, M. **Joorabian Shooshtari, S.** (2014). Using Artificial Neural Network and Markov Chain in Land Cover Change Prediction in Coastal Areas of Persian Gulf (Case Study: Middle Coastal of Bushehr Province). (Abstract in English). Journal of Applied RS and GIS Techniques in Natural Resource Science, 4 (3), 65–79.

Gholamalifard, M., Mirzayi, M. **Joorabian Shooshtari, S.** (2014). Functional Introduction of Land Change Modeler (LCM) for Ecological Sustainability (Case Study: Coastal Area of Mazandaran Province). (Abstract in English). Plant, Soil and Sustainable Ecosystem, 1 (1), 24–46.

Joorabian Shooshtari, S., Gholamalifard, M. (2015). Scenario-based Land Cover Change Modeling and its Implications for Landscape Pattern Analysis in the Neka Watershed, Iran. Remote Sensing application: Society and Environment, 1 (1), 1–19.

Joorabian Shooshtari, S., Shayesteh, K., Gholamalifard, M., Azari, M., López-Moreno, J.I. (2018). Land Cover Change Modelling in Hyrcanian Forests, northern Iran: a Landscape Pattern and Transformation Analysis Perspective. Cuadernos de Investigación Geográfica. http://doi.org/10.18172/cig.3279

Joorabian Shooshtari, S., Shayesteh, K., Gholamalifard, M., Azari, M., Serrano-Notivoli, R., López-Moreno, J.I. (2017). Impacts of future land cover and climate change on the water balance in northern Iran. Hydrological Sciences Journal, 1–19. https://doi.org/10.1080/02626667.2017.1403028

Joorabian Shooshtari, S., Shayesteh, K., Gholamalifard, M., Azari, M., López-Moreno, J.I. (2018). Land cover change modelling in Hyrcanian forests, northern Iran: a landscape pattern and transformation analysis perspective. Cuadernos de Investigación Geográfica (Geographical Research Letters). Volume 44, Issue 2, 743–761. http://doi.org/10.18172/cig.3279

Mirzaei, M., Jafari, A., Gholamalifard, M., Azadi, H., **Joorabian Shooshtari, S**., Moghaddam, S.M., Gebrehiwot, K., Witlox, F. (2020). Mitigating environmental risks: Modeling the interaction of water quality parameters and land use cover. Land Use Policy. 95, 103766. https://doi.org/10.1016/j.landusepol.2018.12.014

Joorabian Shooshtari, S, Silva, T., Raheli-Namin, B., Shayesteh, K. (2020). Land use and cover change assessment and dynamic spatial modeling in the Ghara-su basin, Northeastern Iran. Journal of the Indian Society of Remote Sensing, 48: 81-95. https://doi.org/10.1007/s12524-019-01054-x

Mirzaei, M., Jafari, A., Riyahi Bakhtiari, A., Mohebbi, S., **Joorabian Shooshtari, S,** oureshjani, H.K. (2020). Configurationally analysis of relationships between land‐cover characteristics and river water quality in a real scenario. International Journal of Environmental Science and Technology. 18, 1877-1892. https://doi.org/10.1007/s13762-020-02964-x

Joorabian Shooshtari, S., Shayesteh, K., Gholamalifard, M., Azari, M., López-Moreno, J.I. (2021). Responses of surface water quality to future land cover and climate changes in the Neka River basin, Northern Iran. Environmental Monitoring and Assessment, 193: 411. https://doi.org/10.1007/s10661-021-09184-x

Rafiei Sardooi, E., Azareh, A., **Joorabian Shooshtari, S.,** Parteli, E. (2022). Long-term assessment of land-use and climate change on water scarcity in an arid basin in Iran. Ecological Modeling. 467, 109934.

Kazemi, A., Esmaeilbeigi, M., Sahebi, Z., **Joorabian Shooshtari, S.** (2022). Hydrochemical evaluation of groundwater quality and human health risk assessment of trace elements in the largest mining district of South Khorasan, Eastern Iran. Environmental Science and Pollution Research. 29(54), 81804-81829.

Joorabian Shooshtari, S., Abdollahzadeh, E., Esmaili-Sari, A., Ghasempouri, S. M. (2023). A review of mercury contamination in representative flora and fauna of Iran: seafood consumption advisories. Journal of Hazardous Materials Advances, 100291.

Joorabian Shooshtari, S., Aazami, J. (2023). Prediction of the dynamics of land use land cover using a hybrid spatiotemporal model in Iran. Environmental Monitoring and Assessment, 195, 813.

Aazami, J., **Joorabian Shooshtari, S.,** (2023). Update data of Iranian Wetlands (2023). Journal of Applied Research in Water and Wastewater. 10.22126/arww.2023.7133.1232

Projects:

A national project entitled "Monitoring land cover change of Coastal Areas of Mazandaran province using satellite imageries in a GIS environment". Iranian Department of Environment. 2010-2012

A national project entitled "Monitoring land cover change of Coastal Areas of Bushehr province using satellite imageries in a GIS environment". Department of Environment of Bushehr. 2010-2012

A national project entitled "Implementation Geodatabase of environmental pollution data in Persian Gulf and Oman Sea and WebGIS preparation". Iranian Department of Environment. 2011-2012

A national project entitled "Evaluating the runoff variations into the Nayband wetland (mangrove 2022-2023

Forest) and proposing mitigation measures to ensure adequate water supply for the mangroves".

Pardis Petrochemical Co.

Reviewer:

Applied Geography

Scientific Reports

Environmental Monitoring and Assessment

Theoretical and Applied Climatology

Journal of Hydro-environment Research

International Forestry Review

Water Resources Management

Geography and Sustainability

Skills and Techniques:

- **Decision Making**: **MCE**: Multi-Criteria Evaluation & **MOLA**: Multi-Objective Land Allocation;
- **LCM**: Land Change Modeler;
- **GEOMOD**: Model for Land Use Change Simulation;
- **MARKOV**: Markov Chain Analysis;
- **CA_MARKOV:** Cellular Automaton/Markov Chain Land Cover Chain Model;
- **Fragstats 4.1** (Spatial Pattern Analysis Program for Quantifying Landscape Structures);
- **Digital Image Processing**:
- **Hard Classifiers**;
- **Segmentation Classifiers:** Pixel Segmentation, Training Site and Signature Creation, Segmentation Classification.
- **SWAT:** Soil and Water Assessment Tool
- **SWAT-CUP (SUFI-2):** SWAT Calibration and Uncertainty Programs.
- **Climate Change Modeling**
- **REDD** (Reducing Emission from Deforestation and Forest Degradation);
- **CCAM** (Climate Change Adaptation Modeler);
- **ESM** (Ecosystem Services Modeler);
- **SDM** (Spatial Decision Modeler).

Teaching experience:

"Recognition and protection of the environment" in faculty of natural resource of Jiroft University 2012

Jiroft, Kerman, Iran.

"Terrestrial ecosystems" in faculty of natural resource of Malayer University	2014
Malayer, Hamedan, Iran.	
"Land cover change modeling by LCM and CA-Markov" in faculty of marine sciences of	2015
Mazandaran University, Babolsar, Mazandaran, Iran.	
Assistant Professor, Agricultural Sciences and Natural Resources University of Khuzestan.	From 2021

Teaching Courses at Agricultural Sciences and Natural University of Khuzestan

Weather and Climate	BSc level
Ecology	BSc level
Principles of Remote Sensing	BSc level
Landscape Ecology	BSc level
National Parks Planning	BSc level
GIS	BSc level
Principles of Environmental Science	BSc level
Protected Areas	BSc level

Other Achievements:

- Winner of Annual Academic Award of the Elite National Foundation.	2016-2017
- Winner of the Shahid Chamran Grant by the Iran's National Elites Foundation to be a	2018
Post-Doctoral Researcher	
- Winner as a faculty member for 3 years full-time tenure-track assistant professor position	2021
in Hiroshima University, Japan.	

Other publication information:

Google scholar: https://scholar.google.com/citations?user=pnWGvr4AAAAJ&hl=en&oi=ao

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55600904300

ORCID no.: https://orcid.org/0000-0002-6667-4230

ResearchGate: https://www.researchgate.net/profile/Sharif-Joorabian-Shooshtari