



Research Institute of Forests and Rangelands
Forest Research Division

CURRICULUM VITAE

Full Name: Saeedeh Eskandari

Place of Birth: Tehran, Iran

Education degree: Ph.D. in Natural Resources Engineering, Forestry

Current position: Associate Professor

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<https://www.webofscience.com/wos/author/record/834568>

<https://scholar.google.ca/citations?user=bPCN5H4AAAAJ&hl=en>



EDUCATION

- Jul 2006 Bachelor of Science (Natural Resources Engineering-Forestry), Department of Natural Resources, Kurdistan University, Sanandaj, Iran
- Sep 2008 Master of Science (Natural Resources Engineering-Forestry), Department of Forestry, Mazandaran University, Sari, Iran
Advised by Dr. Jafar Oladi
- Feb 2014 Doctor of Philosophy (Natural Resources Engineering-Forest management, RS, GIS), Department of Forestry, Sari Agricultural Sciences and Natural Resources University, Sari, Iran
Advised by Dr. Jafar Oladi

ACADEMIC POSITIONS

- Mar 2013- Jul 2013 Visiting Researcher, Department of Geology, Geography and Environment, University of Alcalá, Alcalá de Henares, Madrid, Spain
Advised by Dr. Emilio Chuvieco
- Jan 2017- Jan 2024 Assistant Professor, Forest Research Division, Research Institute of Forests and Rangelands, Tehran, Iran
- Jan 2024- present Associate Professor, Forest Research Division, Research Institute of Forests and Rangelands, Tehran, Iran
- March 2024- present Visiting Researcher, School of Forest Engineering, Department of Natural Resources and Environmental Engineering, University of Vigo, Vigo, Spain



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ACADEMIC AWARDS AND GRANTS

- The outstanding student in Bachelor of Science at "Kurdistan University", Iran (2003)
- The first ranked graduated student in Bachelor of Science at "Kurdistan University", Iran (2006)
- The first ranked participant in Ph.D. entrance exam at "Sari Agricultural Sciences and Natural Resources University", Iran (2009)
- The outstanding student in Ph.D. at "Sari Agricultural Sciences and Natural Resources University", Iran (2010)
- The first ranked graduated student in Ph.D. at "Sari Agricultural Sciences and Natural Resources University", Iran (2014)
- Travel grant of "5th International Conference of Fire Effects on Soil Properties", Ireland (International Association of Wildland Fire grant) (2015)
- Selection of Ph.D. thesis as the superior thesis in the field of environment in the "First Festival of Technologies of Water, Soil and Environment", Iran (2015)
- Research grant of "INSF (Iran National Science Foundation)" for research project, Tehran, Iran (2021)
- Research grant of NKhNRA (Northern Khorasan Natural Resources Administration) for research project, Northern Khorasan, Iran (2022)
- Award of "Merit Competition for Research Staff", University of Vigo, Vigo, Spain (2023)

RESEARCH INTERESTS

- Natural resources and forest management
- Natural resources and forest conservation
- Natural hazards modeling in forest ecosystems
- Forest fires modeling, prediction, and management
- Applications of geographic information system (GIS) in forest management
- Applications of remote sensing (RS) and satellite images in forest management
- Mapping using satellite images and geo-spatial data
- Provision of digital maps in natural resources (forest area, land cover, climatic maps, etc.)
- Effect of climate change on natural resources and forests
- Effect of land cover change on natural resources and forests
- Human-nature relationship modeling
- Geography of environment
- Spatial modeling
- Spatial statistics



RESEARCH EXPERIENCE (PROJECT MANAGER)

- **Eskandari, S.** (2010-2011) Investigation of wooden needs change in three past decades in Iran, **Research project**, Islamic Azad University, Central Tehran Branch, Tehran, Iran (Funded project by Young Researchers' Club).
- **Eskandari, S.** (2009) Landscape introduction and land use determination of two villages (Sivar and Gelsefid) in Shahrekord- Iran using GIS (International Project of Conservation of Biodiversity in the Central Zagros Landscape), **Research project**, Environment Protection Organization of Iran, Zagros Project Office, Tehran, Iran (Funded project by Environment Protection Organization of Iran).
- **Eskandari, S.** (2010) Landscape introduction and land use determination of two villages (Margoon and Dashteraz) in Fars and Kohgilouyeh & Boyer Ahmad Provinces- Iran using GIS (International Project of Conservation of Biodiversity in the Central Zagros Landscape), **Research project**, Environment Protection Organization of Iran, Zagros Project Office, Tehran, Iran (Funded project by Environment Protection Organization of Iran).
- **Eskandari, S.** (2011-2012) Evaluation of drainage standards of forest roads in Darabkola and its comparison with drainage standards of forest roads in Iran using GIS, **Research project**, Tehran Payam Noor University, Tehran, Iran (Funded project by Tehran Payam Noor University).
- **Eskandari, S.** (2013) Fire danger assessment in Iran using geospatial information, **Research project**, University of Alcalá, Madrid, Spain (Funded project by Iranian Science Ministry).
- **Eskandari, S.** (2011-2014) Presentation of pattern of forest fire potential and its spread using RS and GIS in Iran, **Ph.D. thesis**, Sari Agricultural Sciences and Natural Resources University, Sari, Iran (Funded project by Sari Agricultural Sciences and Natural Resources University).
- **Eskandari, S.** (2017-2019) Modeling and evaluating the fire risk in the mountainous forests and rangelands of National Botanical Garden of Iran (Sirachal Station), **Research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
- **Eskandari, S.** (2018-2019) Determination of the prone lands for eucalyptus wood farming in southern Iran, **Research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
- **Eskandari, S.** (2018-2020) Determination of the prone lands for populus wood farming in margins of the main rivers in Iran (Eastern Azerbaijan, Western Azerbaijan and Ardabil provinces), **National research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
- **Eskandari, S.** (2017-2021) Determination of forest area, density and distribution in southern Zagros forests using Sentinel-2A and Google Earth in Iran (Ilam, Khuzestan and Fars provinces), **National research project**, Research Institute of Forests and



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- Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
- **Eskandari, S.** (2019-2022) The temporal and spatial relationships between climatic parameters and fire occurrence in northern Iran (Golestan, Mazandaran and Gilan provinces), **National research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Iran National Science Foundation).
 - **Eskandari, S.** (2021-2023) Modeling and predicting the fire risk in the forests and rangelands of Northern Khorasan province in Iran, **Research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Khorasan Natural Resources Administration).
 - **Eskandari, S.** (2020-2023) Determination of area of riparian forests of Khuzestan province in Iran using Sentinel-2A and Google Earth data, **Research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
 - **Eskandari, S.** (2022-2025) Determination of area and distribution of under-storey agriculture in Zagros forests of Chaharmahal & Bakhtiari province in Iran using Sentinel-2A and field data, **Research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
 - **Eskandari, S.** (2024-2027) Provision of the maps of forests affected by oak pests, critical places, and potential of leaf damage by oak pests in Zagros forests (Lorestan, Kohgiluyeh & Boyer Ahmad, and Fars provinces) using RS, GIS, and field data, **National research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Research Institute of Forests and Rangelands).
 - **Eskandari, S.** (2024-2027) Identification, classification, and mapping of existing agroforestry systems in some vegetative areas of Iran (Giulan province), **National research project**, Research Institute of Forests and Rangelands, Tehran, Iran (Funded project by Iran National Science Foundation).

TEACHING EXPERIENCE

Semester courses

Spring 2011- Summer 2012	“Gardens and parks planning”. Department of Environment, Tehran Payam Noor University, Tehran, Iran.
Spring 2011	“Trees and Shrubs of Iran”. Department of Environment, Tehran Payam Noor University, Tehran, Iran.
Fall 2012	“Forestry”. Department of Environment, Tehran Payam Noor University, Tehran, Iran.
Spring 2012	“Basic GIS”. Department of Forestry, Sari Agricultural Sciences and Natural Resources University, Sari, Iran.



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Winter 2019	Teaching workshop on "a guideline for indexing the journals in international database of DOAJ", Research Institute of Forests and Rangelands, Tehran, Iran.
Spring 2021	Teaching workshop on "modeling and prediction of fire occurrence danger in the forests and rangelands of Iran", Tarbiat Modarres University, Tehran, Iran.
Spring 2022	Teaching workshop on "climate change and fire in the forests and rangelands of Iran", Shiraz University, Shiraz, Iran.
Summer 2022	Teaching workshop on "investigation of the effective factors on fire occurrence in the forests of Iran and solutions for firefighting", Agricultural Research Education and extension Organization, Tehran, Iran.

Supervisor/advisor of Ph.D. Thesis/ B.Sc. project

- Title of thesis: Spatial modeling of fire risk in the forests of Kohgilouyeh & BoyerAhmad province based on climatic parameters. Name of student: Zolfaghar Rezapour, Name of Supervisor: **Saeedeh Eskandari**, Isfahan University, Isfahan, Iran, July 2024 (Ph.D. thesis).
- Title of thesis: Investigation of dieback reasons of Hormozgan Mangrove Forests (Case Study: Sirik Port). Name of student: Vahid Farashi, Name of Advisor: **Saeedeh Eskandari**, Hormozgan University, Bandar Abbas, Iran, December 2023 (Ph.D. thesis).
- Title of thesis: Investigation of Sirik Mangrove forest health affected by climatic, physiological and habitat factors. Name of student: Arezoo Nasiri, Name of Advisor: **Saeedeh Eskandari**, Islamic Azad University, Kish International Branch, Kish, Iran, December 2024 (Ph.D. thesis).
- Title of project: application of GIS in forest management. Name of student: AmirMohammad Ali-Hosseini, Supervisor: **Saeedeh Eskandari**, Tehran University, Tehran, Iran, September 2023 (B.Sc. project).

PUBLICATIONS

Book

- **Eskandari, S.** (2024) Fire of Iranian Forests (factors, impacts and control solutions). **Research Institute of Forests and Rangelands Publishing**, Tehran, Iran.

Book chapter

- **Eskandari***, S., Ali Mahmoudi Sarab, S., Pourhashemi, M., Ahmadloo, F. (2022) Selection of the best pixel-based algorithm for land cover mapping in Zagros forests of Iran using Sentinel-2A data: A case study in Khuzestan province. **Chapter of book: Computers in Earth and Environmental Sciences, Elsevier Publishing**, 181-190.



Journals

- Roosta, T., **Eskandari, S.**, Adeli, K., Roosta, H. (2010) An estimating of the economic value of Arsanjan Bonab forest park using contingent valuation and travel cost method. **Pakistan Journal of Biological Sciences**, 13(13), 628-634.
- **Eskandari***, S., Adeli, K. (2011) Investigation of wooden need change in three past decades in Iran. **International Journal of Science and Nature**, 2(3), 508-514.
- **Eskandari***, S., Hosseini, S. A. (2011) Evaluation of drainage system of forest roads in Iran, case study: Darabkola forest roads. **Journal of Development and Agricultural Economics**, 3(16), 703-709.
- **Eskandari***, S., Moradi, A., Oladi, J. (2011) Determination of land use and landscape analysis of Gelsefid village environment using RS and GIS. **Town and Country Planning** (in Persian with English abstract), 3(4), 137-162.
- **Eskandari***, S., Oladi, J., Yakhkashi, A. (2011) Investigation of non-ecological factors effect in evaluating of the outdoor recreation capability of Sorkhe Hesar forest park using GIS. **Town and Country Planning** (in Persian with English abstract), 3(5), 71-92.
- **Eskandari***, S., Oladi, J., Yakhkashi, A. (2011) Evaluation of outdoor recreation potential of forest parks with emphasis on effective factors in outdoor recreation, case study: Sorkhe Hesar forest park. **Geographical Planning of Space Quarterly Journal** (in Persian with English abstract), 1(2), 37-58.
- Pourhasehemi, M., **Eskandari, S.**, Dehghani, M., Najafi, T., Asadi, A., Panahi, P. (2012) Biomass and leaf area index of Caucasian Hackberry (*Celtis caucasica* Willd) in Taileh urban forest, Sanandaj, Iran. **Iranian Journal of Forest and Poplar Research** (in Persian with English abstract), 19(4), 609-620.
- Rezvani, M., **Eskandari***, S., Hashemzadeh, Z. (2012) Diversity of habitat characteristics and its effect on the qualitative and quantitative characteristics of *Buxus hyrcana* in Asarak Seri of Savadkooh- Iran. **American-Eurasian Journal of Agricultural & Environmental Sciences**, 12(1), 44-48.
- **Eskandari***, S. (2012) Quantitative and qualitative evaluating of plantation seedlings in forestry plans of north of Iran. **American-Eurasian Journal of Agricultural & Environmental Sciences**, 12(7), 937-942.
- Rezvani, M., **Eskandari***, S., Bakhtiari, A. (2012) Assessment of national land destruction in Iran, a case study: Zavaf of Chalus in Mazandaran- Iran, from 2000 to 2010. **American-Eurasian Journal of Agricultural & Environmental Sciences**, 12(11), 1533-1535.
- **Eskandari***, S. (2012) Comparison of trees characteristics in the managed (interference) and unmanaged (control) forest units in north of Iran. **World Applied Sciences Journal**, 18(1), 25-30.
- **Eskandari***, S. (2012) Investigation of tolerance amount to salinity of *Dodonea viscosa* in Invitro condition. **World Applied Sciences Journal**, 20(10), 1378-1382.



- **Eskandari***, S., Moradi, A. (2012) Investigation of land use and landscape elements analysis of Sivar village in terms of environment. **Journal of Environmental Studies** (in Persian with English abstract), 38(62), 35-44.
- **Eskandari***, S., Hosseini, S. A. (2013) Assessment of drainage system standards of forest roads in Darabkola - Iran using GIS. **Polish Journal of Environmental Studies**, 22(3), 675-682.
- Rezvani, M., Litkouhi, S., **Eskandari***, S., Sheyasi, F. (2013) Investigation of role of green roofs as a strategy for improving the quality of urban environment in terms of sustainable architecture. **Middle-East Journal of Scientific Research**, 14(7), 992-998.
- **Eskandari***, S., Oladi, J. (2013) Assessment of ecotourism potential of urban forest parks based on effective factors in outdoor recreation, a case study: Sorkhe Hesar forest park. **World Applied Sciences Journal**, 27(8), 950-960.
- Rezvani, M., **Eskandari***, S., Karimi, M. (2013) Investigation of protection of Iran's forests and pastures regarding to experiences and advances of legal and technical knowledge. **Global Journal of Bio-science and Biotechnology**, 2(1), 51-56.
- **Eskandari***, S., Oladi, J., Yakhkashi, A. (2013) Evaluation of tourism attract potential of Sorkhe Hesar forest park using systemic analysis method. **Iranian Forest Ecology Journal** (in Persian with English abstract), 1(1), 68-79.
- **Eskandari***, S. (2013) Evaluation of outdoor recreation potential of Zarrin Abad-Neka forests based on usual tourism model in Iran. **Environment and Development Journal** (in Persian with English abstract), 4(7), 83-92.
- **Eskandari***, S., Oladi, J., Jalilvand, H., Saradjian, M. R. (2013) Fire risk modeling and prediction in District Three of Neka-Zalemroud forests using geographic information system. **Iranian Journal of Forest and Poplar Research** (in Persian with English abstract), 21(2), 203-217.
- **Eskandari***, S., Oladi, J., Jalilvand, H. (2013) Efficiency evaluation of Dong model for determination of fire risk potential in Zarrin Abad forests of Neka- Mazandaran Province. **Iranian Journal of Forest and Poplar Research** (in Persian with English abstract), 21(3), 439-451.
- **Eskandari***, S., Oladi, J., Jalilvand, H., Saradjian, M. R. (2013) Detection of fire high-risk areas in Northern forests of Iran using Dong model. **World Applied Sciences Journal**, 27(6), 770-773.
- **Eskandari***, S., Oladi, J., Jalilvand, H., Saradjian, M. R. (2013) Role of human factors on fire occurrence in District Three of Neka Zalemroud forests- Iran. **World Applied Sciences Journal**, 27(9), 1146-1150.
- **Eskandari***, S., Chuvieco, E. (2015) Fire danger assessment in Iran based on geospatial information. **International Journal of Applied Earth Observation and Geoinformation**, 42, 57-64.
- **Eskandari***, S., Oladi, J., Jalilvand, H., Saradjian, M. R. (2015) Prediction of future forest fires using the MCDM method. **Polish Journal of Environmental Studies**, 24(5), 2309-2314.



- **Eskandari***, S., Oladi, J., Jalilvand, H., Saradjian, M. R. (2015) Evaluation of the MODIS fire-detection product in Neka-Zalemroud fire-prone forests in Northern Iran. **Polish Journal of Environmental Studies**, 24(5), 2305-2308.
- **Eskandari***, S. (2015) Comparison of accuracy of three methods of Fuzzy Analytic Hierarchy Process method, Correlation method and Dong model to provide the forest fire risk potential map. **Iranian Journal of Forest and Range Protection Research** (in Persian with English abstract), 12(2), 137-152.
- **Eskandari***, S. (2015) Evaluation of forest fire risk potential using Dong model, case study: District Three of Neka-Zalemroud forests. **Geographical Planning of Space Quarterly Journal** (in Persian with English abstract), 6(15), 195-209.
- **Eskandari***, S. (2015) Developing a method to assess forest fire risk using environmental and human variables. **Iranian Journal of Forest and Poplar Research** (in Persian with English abstract), 23(1), 117-133.
- **Eskandari***, S. (2015) Relation between climate change and fire in forests of Golestan Province. **Iranian Journal of Forest and Range Protection Research** (in Persian with English abstract), 13(1), 1-10.
- **Eskandari***, S. (2015) Analysis on modeling and simulation methods of fire spread in the forests. **Journal of Human and Environment** (in Persian with English abstract), 13(3), 67-88.
- **Eskandari***, S. (2016) Application of a CA-based model to predict the fire front in Hyrcanian forests of Iran. **Arabian Journal of Geosciences**, 9(17), 1-12.
- **Eskandari***, S. (2017) A new approach for forest fire risk modeling using fuzzy AHP and GIS in Hyrcanian forests of Iran. **Arabian Journal of Geosciences**, 10(8), 1-13.
- **Eskandari***, S., Miesel, J.R. (2017) Comparison of the fuzzy AHP method, the spatial correlation method, and the Dong model to predict the fire high-risk areas in Hyrcanian forests of Iran. **Geomatics, Natural Hazards and Risk**, 8(2), 933-949.
- **Eskandari***, S., Oladi, J. (2017) Modeling of forest fire spread using Cellular Automata. **Geographical Planning of Space Quarterly Journal** (in Persian with English abstract), 7(25), 37-54.
- **Eskandari***, S., Jalilvand, H. (2017) Effect of weather changes on fire regime of Neka and Behshahr forests. **Iranian Journal of Forest and Range Protection Research** (in Persian with English abstract), 15(1), 30-39.
- **Eskandari***, S., Oladi, J., Yakhkashi, A. (2017) Investigation of outdoor recreation needs and preferences of visitors in Sorkhe Hesar forest park and its comparison with Sisangan forest park. **Journal of Human and Environment** (in Persian with English abstract), 15(1), 45-59.
- **Eskandari***, S. (2017) Methods of modeling and evaluation of fire occurrence risk in the forests of world and Iran. **Journal of Human and Environment** (in Persian with English abstract), 15(3), 91-110.
- **Eskandari***, S. (2019) Comparison of different algorithms for land cover mapping in sensitive habitats of Zagros using Sentinel-2 satellite image: (Case study: a part of Ilam



- province). **RS & GIS for Natural Resources** (in Persian with English abstract), 10(1), 72-87.
- **Eskandari***, S., Eskandari, S. (2019) Effect of fire on soil physical and biological characteristics of forests in Northern Iran. **International Journal of Conservation Science**, 10 (2), 327-334.
 - **Eskandari***, S., Ali Mahmoudi, S., Zandifar, S. (2020) Identification of the prone lands for wood farming by Eucalyptus in Khuzestan province using Fuzzy AHP). **RS & GIS for Natural Resources** (in Persian with English abstract), 11(1), 48-71.
 - **Eskandari***, S., Khoshnevis, M. (2020) Evaluating and mapping the fire risk in the forests and rangelands of Sirachal using fuzzy analytic hierarchy process and GIS. **Journal of Forest Research and Development** (in Persian with English abstract), 6(2), 219-245.
 - **Eskandari***, S. (2020) Application of Sentinel-2A data and pixel-based algorithms for land cover mapping in Ilam-Iran. **Environmental Engineering and Management Journal**, 19(4), 655-666.
 - **Eskandari***, S., Moradi, A. (2020) Mapping the land uses and analysing the landscape elements in south-western Iran: Application of Landsat-7, field data, and landscape metrics. **International Journal of Conservation Science**, 11(2), 557-564.
 - **Eskandari***, S., Pourghasemi, H.R., Tiefenbacher, J.P. (2020) Relations of land cover, topography, and climate to fire occurrence in natural regions of Iran: Applying new data mining techniques for modeling and mapping fire danger. **Forest Ecology and Management**, 473 (118338).
 - **Eskandari***, S., Jaafari, M.R., Oliva, P., Ghorbanzadeh, O., Blaschke, T. (2020) Mapping land cover and tree canopy cover in Zagros forests of Iran: Application of Sentinel-2, Google Earth, and field data. **Remote Sensing**, 12(12), 1-32.
 - Pourghasemi, H.R., Yousefi, S., Sadhasivam, N., **Eskandari, S.** (2020) Assessing, mapping, and optimizing the locations of sediment control check dams construction. **Science of the Total Environment**, 739 (139954).
 - **Eskandari***, S., Miesel, J.R., Pourghasemi, H.R. (2020) The temporal and spatial relationships between climatic parameters and fire occurrence in northeastern Iran. **Ecological Indicators**, 118 (106720).
 - **Eskandari***, S., Amiri, M., Sādhasivam, N., Pourghasemi, H.R. (2020) Comparison of new individual and hybrid machine learning algorithms for modeling and mapping fire hazard: a supplementary analysis of fire hazard in different counties of Golestan Province in Iran. **Natural Hazards**, 104(1), 305-327.
 - Yousefi, S., Pourghasemi, H.R., Emami, S.N., Pouyan, S., **Eskandari, S.**, Tiefenbacher, J.P. (2020) A machine learning framework for multi-hazards modeling and mapping in a mountainous area. **Scientific Reports**, 10(1), 1-14.
 - **Eskandari***, S., Pourghasemi, H.R., Tiefenbacher, J.P. (2021) Fire susceptibility mapping in the natural areas of Iran using new and ensemble data mining models. **Environmental Science and Pollution Research**, 28(34), 47395-47406.



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- Pourghasemi, H.R., Sadhasivam, N., Amiri, M., **Eskandari, S.**, Santosh, M. (2021) Landslide susceptibility assessment and mapping using state-of-the art machine learning techniques. **Natural Hazards**, 108, 1291-1316.
- Mohammady, M., Pourghasemi, H.R., Yousefi, S., Dastres, E., Edalat, M., Pouyan, S., **Eskandari, S.** (2021) Modeling and Prediction of Habitat Suitability for *Ferula gummosa* Medicinal Plant in a Mountainous Area. **Natural Resources Research**, 30, 4861-4884.
- **Eskandari***, S., Eskandari, S. (2021) Fire of Iranian forests, consequences, opposition methods and solutions. **Journal of Human and Environment**, 19(1), 175-187 (in Persian with English abstract).
- Calagari, M., Mirakhorloo, Kh., Salehi, A., Ahmadloo, F., Teimouri, S., Jaafari, A., Eskandari, S., Bagheri, R., Araghi, M.K., Khodayi, M.B., Ghasemi, R. (2022) The implementation of the national program for wood farming: a necessity for protection of forests and provision of wooden need of Iran. **Iran Nature**, 7(1), 9-19 (in Persian with English abstract).
- Ahmadloo, F., Calagari, M., Salehi, A., Eskandari, S. (2022) Evaluating the usefulness and economic productivity of poplar in combination with agricultural, fodder and medicinal products. **Iran Nature**, 7(2), 35-48 (in Persian with English abstract).
- **Eskandari***, S., Behnamfar, K., Pourghasemi, H.R., Tiefenbacher, J. (2022) Provision of eucalyptus wood farming potential map in Iran: An application of land cover, ecological, climatic, hydrologic, and edaphic analysis in a GIS-based fuzzy AHP framework. **Ecological Indicators**, 136, 108621.
- Sadeghzadeh Hallaj, M.H., Azadfar, D., Mirzaei Nodoushan, H., **Eskandari***, S., Tiefenbacher, J.P. (2022) Shade moderates the drought stress on saplings of Benesh (*Pistacia atlantica* Desf. subsp. *mutica*) in semiarid areas of Iran. **Environmental Science and Pollution Research**, 29, 55201-55212.
- **Eskandari***, S., Ali Mahmoudi Sarab, S. (2022) Mapping land cover and forest density in Zagros forests of Khuzestan province in Iran: A study based on Sentinel-2, Google Earth and field data. **Ecological Informatics**, 70, 101727.
- **Eskandari***, S., Pourghasemi, H.R. (2022) Assessing and mapping distribution, area, and density of riparian forests in southern Iran using Sentinel-2A, Google earth, and field data. **Environmental Science and Pollution Research**, 29, 79605-79617.
- Ahmadloo, F., Calagari, M., Salehi A., **Eskandari, S.** (2022) Evaluating the usefulness and economic productivity of poplar in combination with agricultural, fodder and medicinal products. **Iran Nature**, 7(2), 35-48 (In Persian with English abstract).
- Ahmadloo, F., Goudarzi, Gh., Salehi A., **Eskandari, S.** (2022) Investigation of distribution of *populous euphratica* in Markazi province. **Iran Nature**, 7(5), 51-62 (In Persian with English abstract).
- **Eskandari***, S., Ravanbakhsh, H., Ahangaran, Y., Rezapour, Z., Pourghasemi, H.R. (2023) Effect of climate change on fire regimes in natural resources of northern Iran: Investigation of spatiotemporal relationships using regression and data mining models. **Natural Hazards**, 119, 497-521.



- **Eskandari***, S., Ahmadloo, F., Pourghasemi, H.R., Ahangaran, Y., Rezapour, Z. (2023) Investigation of spatio-temporal relationships between climatic parameters changes and fire in the forests and rangelands of Gilan province. **Iranian Journal of Forest and Range Protection Research**, 21(1), 164-186 (In Persian with English abstract).
- Ahmadloo, F., Dehghan, R., Salehi, A., **Eskandari, S.** (2023) Surveying and investigation of biometric variables of poplar plantations in Guilan province. **Iranian Journal of Forest**, 15(3), 195-210 (In Persian with English abstract).
- Ahmadloo, F., **Eskandari, S.** (2023) The evaluation of yield, yield components and indices advantage of intercropping of *Populus euramericana* with *Allium sativum* in Karaj conditions. **Sustainable Agricultural Science Research**, 3(2), 15-34 (In Persian with English abstract).
- Ahmadloo, F., Rezaei, A., Calagari, M., **Eskandari, S.**, Teimouri, S., Dargahian F., Farahpour, M., Mirakhorlou, Kh. (2023) Determination of prone lands for wood farming in non-forest areas in Gilan province. **Iran Nature**, 8(4), 49-59 (In Persian with English abstract).
- **Eskandari***, S., Jafari, M., Ahangaran, Y., Ahmadloo, F. (2023) Climate change, a main factor in increasing fires in the natural areas of Eastern Hyrcanian vegetative area. **Iran Nature**, 8(5), 1-8 (In Persian with English abstract).
- Farashi, V., Rezaei, M., Mahdavi, R., Moslehi, M., **Eskandari, S.** (2023) Effect of dieback on the vegetative, chemical, and physiological status of mangrove forests, Iran. **Journal of Arid Land**, 15 (12), 1391-1404.
- **Eskandari***, S., Kamali, N., Sadeghipour, A., Siahmansour, R., Tiefenbacher, J.P. (2024) Fire-danger modeling and mapping in natural ecosystems of northeastern Iran: application of physiographic, vegetative, climatic and human-made indicators. **Natural Hazards**, 120 8025-8056.
- Novo, A., Dotal, H., **Eskandari***, S. (2024) Fire susceptibility modeling and mapping in Mediterranean forests of Turkey: a comprehensive study based on fuel, climatic, topographic, and anthropogenic factors. **Euro-Mediterranean Journal for Environmental Integration**, 9, 655-679.
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- Jahanbazi, H., Hosseini Nasr, S. M., **Eskandari, S.**, Naghavi, H. (2011) Effects of salinity stress on seed germination of *Dodonea viscosa* species. **Regional Conference on Forests and Environment as a Sustainable Development Guarantee**, Boushehr, Iran, 11 p.
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- Ahmadloo, F., Salehi, A., **Eskandari, S.**, Teimouri, S. (2022) Economic analysis of amount irrigation under pressure systems (tape) and plastic mulch on weed control in the nursery seeding production of populus spp. **8th IUFRO International Poplar Symposium**, 4-6th of Oct., Novi Sad, Serbia, 69.
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- Ahmadloo, F., Calagari, M., Bagheri, R., **Eskandari, S.** (2023) Study on economic analysis of amount irrigation used with tape pipe in the production of poplar under the use of plastic mulch. **National Conference on Wood Farming**, 29th of Nov., Ahwaz, Iran, 1-11.
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Handbooks (Technical publications)

- **Eskandari, S.** (2019) A guideline for indexing the journals in international database of DOAJ. **Technical magazine**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.
- **Eskandari, S.** (2021) A guideline for identifying the suitable lands for eucalyptus wood farming in south of Iran. **Technical magazine**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.
- **Eskandari, S.** (2022) An instruction for identification of the fire high-risk areas in the forests and rangelands of Central Alborz. **Technical instruction**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.
- **Eskandari, S.** (2023) How can we protect the planted seedlings? **Promotional brochure**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.
- Kamali, N., **Eskandari, S.**, Siahmansour, R. (2023) Management and control of fire in the natural resources areas of Northern Khorasan province. **Handbook**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.
- Sadeghzadeh, M.H., Jaafari, A., **Eskandari, S.**, Khoshnevis, M., Pourhashemi, M., Sadeghi, S.M. (2024) Principles of Forestation. **Promotional magazine**, Research Institute of Forests and Rangelands Publishing, Tehran, Iran.

COOPERATION WITH JOURNALS

EDITOR

- Guest Editor of "Frontiers in Remote Sensing" for Special Issue: "Remote Sensing for Fire Management" (<https://www.frontiersin.org/research-topics/52082/remote-sensing-for-fire-management>), March 2023.



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JOURNAL REVIEWER

- Ecological Modelling (Elsevier)
- Ecological Indicators (Elsevier)
- Artificial Intelligence (Elsevier)
- International Journal of Disaster Risk Reduction (Elsevier)
- Forest Ecology and Management (Elsevier)
- Engineering Applications of Artificial Intelligence (Elsevier)
- Industrial Crops and Products (Elsevier)
- Remote Sensing Applications: Society and Environment (Elsevier)
- Advances in Space Research (Elsevier)
- Journal of Safety and Sustainability (Elsevier)
- Global Ecology and Conservation (Elsevier)
- Geography and Sustainability (Elsevier)
- Ecological Informatics (Elsevier)
- Heliyon (Elsevier)
- Environmental Modeling and Assessment (Springer)
- Environmental Monitoring and Assessment (Springer)
- Stochastic Environmental Research and Risk Assessment (Springer)
- Natural Hazards (Springer)
- International Journal of Environmental Science and Technology (Springer)
- Environmental Science and Pollution Research (Springer)
- Arabian Journal of Geosciences (Springer)
- SN Applied Sciences (Springer)
- Geomatics, Natural Hazards and Risk (Taylor & Francis)
- European Journal of Remote Sensing (Taylor & Francis)
- Geocarto International (Taylor & Francis)
- Geo-spatial Information Science (Taylor & Francis)
- International Journal of Wildland Fire
- Remote Sensing (MDPI)
- Forests (MDPI)
- Polish Journal of Environmental Studies
- Open Geosciences
- Plos One
- Open Geosciences
- Journal of Forest Science
- Ecopersia
- Iranian Journal of Forest and Poplar Research (In Persian)
- Iranian Journal of Forest and Range Protection Research (In Persian)
- Iranian Journal of Forest (In Persian)



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- Forest Research and Development (In Persian)
- Journal of Wood and Forest Science and Technology (In Persian)
- Iranian Forest Ecology Journal (In Persian)
- Journal of Iran Nature (In Persian)
- Desert Ecosystems Engineering Journal (In Persian)
- Journal of Geomatics Science and Technology (In Persian)

TRAINING COURSES

- Training course of “SPSS software”, Sari Agricultural Sciences and Natural Resources University (2012)
- Training course of “Advanced GIS”, Research Institute of Forests and Rangelands (2017)
- Training course of “Advanced Envi software”, Iranian Remote Sensing Association (2017)
- Training course of “Excel software”, Research Institute of Forests and Rangelands (2018)
- Training course of “Application of Google Earth in natural resources, water and soil”, Research Institute of Forests and Rangelands (2018)
- Training course of “Application of GPS in natural resources”, Research Institute of Forests and Rangelands (2018)
- Training course of “Basics of ANP and its application in natural resources”, Research Institute of Forests and Rangelands (2019)
- Training course of “R software and its application in statistics”, Research Institute of Forests and Rangelands (2019)
- Training course of “Analysis of biodiversity data and modeling of ecological nest of biological species using Ecological Niche”, Research Institute of Forests and Rangelands (2020)
- Training course of “Modeling of natural resources projects in ArcGIS”, Research Institute of Forests and Rangelands (2021)
- Training course of "Advanced remote sensing", Research Institute of Forests and Rangelands (2022)

SOFTWARE AND HARDWARE SKILLS

Software Skills

- ArcGIS10 (15 years)
- ENVI 5.3 (5 years)
- ERDAS Imagine 2014 (5 years)
- Google Earth Pro 7 (5 years)
- FRAGSTATS (5 years)



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- Flammap (5 years)
- SPSS (10 years)
- Geostatistics (2 years)
- Matlab (2 years)

Hardware Skills

- GPS (15 years)

SCIENTIFIC MEMBERSHIP

- IUFRO (Intentional Union of Forest Research Organizations), Scientific membership, from 2017
- Faculty member association, Research Institute of Forests and Rangelands, from 2017
- International Geospatial Conference 2019, Member of Scientific Committee, 2019