CURRICULUM VITAE

Morteza Pourreza

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1. Personal Details

Date of Birth: September, 1975

Marital Status: Married

Nationality: Iranian

Sex: Male

2. Academic Qualification

1) B. Sc (Natural resources engineering) Forestry, University of Kurdistan, Iran. 2002
2) M. Sc. (Natural resources engineering), Forestry, University of Guilan, Iran. 2004
3) Ph.D student (Forest ecology), Tarbiat Modares University, Iran. 2014

3. Visiting scholar

The Ohio State University, USA

4. Full time job experience

1) Kermanshah Agricultural and Natural resources Research Center, Kermanshah province, Iran. 2005-2011
2) Razi University, Faculty of Natural Resources, Assistant/Associate Professor, 2016 - Present

5. Research Project

1) Investigation of the recovery and positive and negative reactions of different forest tree and shrub species in the recent 10 year of wildfires in Kermanshah province. (2018)
2) Thinning effect on the growth of Persian Oak (*Q. persica*) sprout-clumps in Zagros forests, Kermanshah. Kermanshah Agricultural and Natural resources Research Center, Kermanshah provience, Iran. 2009
3) Acorn crops estimation of Iran`s native oaks using different visual surveys and acorn traps. Kermanshah Agricultural and Natural resources Research Center, Kermanshah provience, Iran. 2009
4) Thinning effect on the growth of Persian Oak (*Q. persica*) sprout-clumps in Lorestan forests. Lorestan Agricultural and Natural resources Research Center, Lorestan provience, Iran. 2009
5) Spatial pattern of *Pistacia atlantica* in Ghalaje forest, Kermanshah. Faculty of agriculture and natural resources, Razi University of Kermanshah, Iran, 2009
6) Site demands of *Quercus persica* and *Pyrus communis* in Zagros forests. Kermanshah Agricultural and Natural resources Research Center, Kermanshah provience, Iran. 2006
7) Site demands of *Quercus infectoria* and *Acer cinerascens* in Zagros forests. Kermanshah Agricultural and Natural resources Research Center, Kermanshah provience, Iran. 2006
8) Investigation in climate change impacts on Arasbaran and Zagros forests ecosystem and planning for mitigation and adaptation in these ecosystems. 2010
9) Thinning effect on the growth of Persian Oak (*Q. persica*) sprout-clumps in Zagros forests, Kermanshah. Kermanshah Agricultural and Natural resources Research Center, Kermanshah provience, Iran. 2015 (second phase).
10) Management of the productivity of the forest park to assign land to Razi University. (2017)
11) Investigation of restoration, positive and negative reactions of different trees and shrub species after **fires** of the last 10 years in Kermanshah Province (2019)
12) Evaluation of changes in forest canopy level in forest enrichment projects in Kermanshah province.
13) Investigating the sustainability of pistachio forests in important habitats of Kermanshah province and providing optimal solutions for their sustainable management.

6. Teaching experience from 2011 to 2017

1) Ecology
2) Forestry
3) Silviculture
4) Land Evaluation
5) Soils of arid and semiarid areas
6) Forest and Environment (Master degree)
7) Forest fire management (Master degree)
8) Forest Simulation and Modeling (Master degree)
9) Land use planning (Master degree)

7. Publications

1) **Pourreza, M**., Zangeneh, H., Show, J.D. 2008. Sustainability of Wild pistachio in Zagros forests, Iran. **Journal of Forest Ecology and Management.** 255, 3667-3671.
2) **M Pourreza**, H Safari, Y Khodakarami, S Mashayekhi. 2009. Preliminary results of post fire resprouting of manna oak (*Quercus brantii Lindl.)* in the Zagros forests, Kermanshah. Iranian Journal of Forest and Poplar Research Vol. 17 No. 2, 225-236
3) Safari, A., Shabanian, N., Heydari, RR., Efrfanifard, Y., **Pourreza, M.,** (2010). Spatial pattern of Manna Oak trees (Quercus brantii Lindl.) in Bayangan forests of Kermanshah. Iranian Journal of Forest and Poplar Research Vol. 18 No. 4, 596-608
4) A Tavakoli, **M Pourreza**, Y Khodakarami. 2011. PRELIMINARY INVESTIGATION ON POSSIBILITY OF ROOTING OF MANNA OAK (QUERCUS BRANTII LINDL.) BY LAYERING IN ZAGROS FORESTS. Iranian Journal of Forest and Poplar Research 19 (345), 432-440 (In Persian)
5) Safari, A., Shabanian, N., Heydari, RR., Efrfanifard, Y., **Pourreza, M.,** (2011). Investigation of spatial pattern of wild pistachio (Pistacia atlantica Desf.) (case study: Bayangan forests, Kermanshah). Iranian Journal of Forest, Vol.2, No.2, 177-185 (In Persian)
6) **Pourreza, M.,** SM HOSSINI, AA Zohrevandi. 2012. Spatial variations of diameter of Pistacia atlantica (Desf.) trees in Zagros area (Case Study: Pirkashan, Kermanshah). JOURNAL OF WOOD AND FOREST SCIENCE AND TECHNOLOGY 19 (3), 1-19 (In Persian)

7) AA Zohrevandi, TKH Sagheb, **M Pourreza**, Y Khodakarani. (2012) SITE DEMANDS OF MONNA OAK (QUERCUSBRANTTI) TREES IN KERMANSHAH PROVINCE. Natural Ecosystems of IRAN 2 (2), 53-62 (In Persian)
8) **Pourreza, M**., Hosseini, SM., Safari Sinegani, A.A., Matinizadeh, M., Dick, A.W. 2014. Soil microbial activity in response to fire severity in Zagros oak (*Quercus brantii* Lindl.) forests, Iran, after one year, **Geoderma**, 2103: 95-102
9) **Pourreza, M.,** SM Hosseini, AA Safari Sinegani, M Matinizadeh, SJ Alavai. 2014. Herbaceous species diversity in relation to fire severity in Zagros oak forests, Iran. **Journal of forestry research** 25 (1), 113-120
10) **Pourreza, M**., Hosseini, SM., Safari Sinegani, A.A., Matinizadeh, M., Dick, A.W. 2014. Effect of fire severity on soil macrofauna in Manna Oak Coppice forest. Iranian Journal of Forest and Poplar Research, 21 (454), 729-741. (In Persian)
11) Pourhashemi, M., **Pourreza, M**., Khodakarami, Y., Panahi, P. (2015). Individual and annual variation in acorn production of Brant`s oak (Quercus brantii Lindl.) in Darbadam Forest of Kermanshah Province. Iranian Journal of Forest and Poplar Research, 23 (2), 246-255 (In Persian)
12) Aghbash-Ghasemi, F., Hosseini, V., **Pourreza, M**. 2016. Nutrient dynamics and early decomposition rates of Picea abies needles in combination with Fagus orientalis leaf litter in an exogenous ecosystem. **Annals of Forest Research** DOI: 10.15287/afr.2015.475
13) Khodakarami, Y., Pourhashemi, M., Khanhasani, M., Safari, H., **Pourreza, M**. (2016). Effect of thinning on growth of oak manna (Quercus brantii) sprout- clumps in Kermanshah. Iranian Journal of Forest and Poplar Research, 23: 246-255. (In Persian)
14) Sadeghifar, M., Beheshti Ale Agha, A., **Pourreza, M**. 2017. The recovery of soil physical and chemical indices in years after fire in Zagros oak woodlands in Kermanshah Province. Journal of Water and Soil Conservation, 24 (2), 289-302. DOI: 10.22069/JWFST.2017.11378.2577 (In Persian)
15) Sadeghifar, M., Beheshti Ale Agha, A., **Pourreza, M**. 2017. Variability of Soil Nutrients and Aggregate Stability in Different Times after Fire in Zagros Forests (Case Study: Paveh Forests). Ecology of Iranian Forests, 4: 19-27 (In Persian)
16) Sadeghifar, M., Beheshti Ale Agha, A., **Pourreza, M**. 2017. Comparing some physical_chemical and microbial indices of soil in different years after fire in the Zagros forests (case study: Paveh county). Soil research (Accepted, Under publication) (In Persian)

17) Mohammadi, R., Salehi, A., **Pourreza, M.** 2018. The Abundance and Biodiversity of Soil Macrofauna in Outside and Inside of Coppice Shoots of Persian oak (Quercus persica) in Zagros Coppice Forests. Journal of Soil Biology, 6: 55-64. (In Persian)

18) Amiri, S., **Pourreza, M.,** Sayad, E. 2019. Comparison of species diversity of sexual regeneration in tree microhabitats of the Zagros forests (Case study: Baba-Yadegar forests, Kermanshah Province). Iranian Journal of Forest and Poplar Research, 27: 194-206. (In Persian)

19) Salimi, A., Ghasemi Aghbash, F., **Pourreza, M**. 2019. Spatial pattern of Anagyris foetida L. shrubs in the Zagros forests. Iranian Journal of Forest, 11: 135-150. (In Persian)

20) Sadeghifar, M., Beheshti Ale Agha, A., **Pourreza, M**. 2020. Comparing soil microbial eco-physiological and enzymatic response to fire in the semi-arid Zagros woodlands. Applied Soil Ecology, 147, 103366.

21) Azizi, M., Khosravi, M., **Pourreza, M**. 2020. Frequency of fire incidence in relation to Zagros forests and rangelands physiography (Kermanshah Province) using MODIS Active Fire Data. Iranian Journal of Forest and Range Protection Research, 18: 42-55.

22) Comparing soil microbial eco-physiological and enzymatic response to fire in the semi-arid Zagros woodlands. M Sadeghifar, ABA Agha, **M Pourreza**. Applied Soil Ecology 147, 103366

23) Comparison of some Soil Physico-Chemical and Microbial Characteristics in Relation to Oak Decline in Different Elevation Classes in Southern Zagros Forest. H Shahrezaee, M., Faramarzi, M., Heydari, **M., Pourreza**. Ecology of Iranian Forest 8 (16), 136-147

24) Changes in chemical and biological characteristics of soil after fire in Zagros forests. 2021. MK Nasab, ABA Agha, **M Pourreza.** Degradation and Rehabilitation of Natural Land, 22(1) 4.

25) Site Demands of Sumac (Rhus coriaria) in Order to Conserve it in Somaqloo Forest Reserve of Shazand County, F Ghasemi Aghbash, **M Pourreza**, E Momeni, Degradation and Rehabilitation of Natural Land 1 (2), 123-134

26) The relationship between wildfire areas and physiographic features in the central Zagros vegetation area, Kermanshah province. A Gholamrezaei, M Khosravi, **M Pourreza**. 2022. Ecology of Iranian Forest, 23(10) 20.

27) GCPs-Free Photogrammetry for Estimating Tree Height and Crown Diameter in Arizona Cypress Plantation Using UAV-Mounted GNSS RTK. 2022. **Morteza Pourreza**, Fardin Moradi, Mohammad Khosravi, Azade Deljouei, Melanie K. Vanderhoof. 13 (11) 10.3390/f13111905.

28) Vulnerability of the most important trees, shrubs and bushes species to wildfire in the forests of Kermanshah province M Pourreza, M Khosravi, E Sayad. SCIENTIFIC PROGRESS AND DEVELOPMENT OF KERMANSHAH 2 (2001959), 24-40.

29) Time Series model of fires forests and rangelands of Kermanshah province using MODIS data from 2002 to 2018. M Azizi, M Khosravi, M Pourreza. Iranian Journal of Forest and Range Protection Research 19 (2), 279-296.
30) Comparison of Soil Biological Activity in Forest with Coniferous and Broadleaf Trees in Biston Region of Kermanshah. S Mehrnoosh, A Beheshti Ale Agha, F Rakhsh, M Pourreza, AA. Safari, Sinejani. Water and Soil 36 (5), 593-610.
31) Evaluation of the impact of the implementation of Zagros forest protection plan on some properties of soil.M Akbari, A Beheshti Ale Agha, **M Pourreza**, F Rakhsh. Journal of Soil Management and Sustainable Production 13 (1), 95-111.
32) Soil macrofauna diversity and biomass associated with the "fertility islands" beneath oak trees in a semi-arid woodland. 2024. S Hashemi, **M Pourreza**, A Beheshti Ale Agha. Applied Soil Ecology 201, 105480.
33) The effect of mycorrhizal fungi inoculation on the antioxidant response and nutrient absorption of Paulownia fortunei seedlings under drought stress. E Hasani, S Jalali Honarmand, **M Pourreza**, A Beheshti Ale Agha. Forest Research and Development 10 (1), 57-71
34) The effect of mycorrhizal fungi inoculation on physiological characteristics and root mass of Paulownia fortunei seedlings under drought stress conditions. A Hasani, E., **M. Pourreza**, Jalali Honarmand, S., Beheshti Ale Agha. Journal of Plant Production Research 31 (3), 147
35) Estimating the height of individual trees using RTK Unmanned Aerial Vehicle (UAV) images and the Local Maxima Algorithm. **M Pourreza**, F Moradi, S Jalilian, M Khosravi. Iranian Journal of Forest and Poplar Research.
36) A quantitative study of post-fire resprouting of Quercus brantii Lindl. in Zagros forests (Kermanshah province, Iran). S Valadipour, L Ghahramany, **M Pourreza**. Iranian Journal of Forest and Poplar Research 33 (1), 1-17.
37) Comparing the efficiency of UAV-based specialized photogrammetry software in estimating some structural features of Zagros forests (Case study: Qalajeh, Kermanshah province).

8. Major International Conferences Attended

1) Fire effect on bacterial population in Zagros coppice forests of Persian oak in Kermanshah. The first International Conference on Wildfire in Natural Resources Lands, Gorgan- Iran, 26-28 October, 2011
2) Fire effect on plant diversity of Persian oak of Zagros forest, Kermanshah. The first International Conference on Wildfire in Natural Resources Lands, Gorgan- Iran, 26-28 October, 2011
3) Investigation of the economical role of Wild pistachio (Pistacia atlantica) forest in rural people life in Iran. IUFRO European Congress September 6-8, 2007.

9. Familiar with methodologies and software

1) **Geospatial Information:** GIS, RS, Google Earth Engine,
2) **Statistics and Modeling:** Geostatistics, Multivariate Analysis in Ecology, R statistics, spatial pattern
3) Field and Lab methods: Soil Sampling, measuring soil GHG (Green House Gases) in field using, Measuring Forest fire severity

10. Collaboration in thesis and dissertations

1) Soil macrofauna diversity associated with islands of fertility around the coppice trees same of Zagros forests in Kermanshah province (Ravansar)
2) Spatio-temporal variation of wildfire in the Zagros forests and its relationship with environmental factors
3) Comparing soil microbial activity in plantation with needle leaf and broad leaf tree species (case study: Bisotoun,Kermanshah)
4) The role of different microhabitats on tree species regeneration in Babayadgar forests, Kermanshah
5) The relationship of Mistletoe abundance and crown distribution with tree diversity in Babayadgar forests, Kermanshah
6) Investigation of spatial pattern of Pistacia atlantica and Quercus persica in Zagros forests (Case study: Bayangan forest). For bachelor degree of forestry, student: Amir Safari, University of Kurdistan, 2009.
7) The recovery of soil macrofauna with different times after fire in Oak coppice forests. Guilan University, Student: Ronak Mohammadi
8) The relationship between the Persian oak drought with some biological and physical-chemical properties of soil in the Zagros forests (case study Malekshahi County), Hasan Shahrezaee, Ilam university, 2016-2017
9) Investigation the recovery time of soil quality indices after fire in Zagros oak coppice, Kermanshah, Mostafa Sadeghi, Razi University, 2015-2017

12. Reviewer of peer-reviewed journals

1) Forests
2) Sustainability
3) Fire
4) Land
5) Remote sensing
6) Ecological Informatic

7) Annals of Forest Research
8) Drones
9) Dendrobiology
10) Journal of Agricultural Science and Technology
11) Caspian Journal of Environmental Science
12) Iranian Journal of Forest and Poplar Research
13) Iranian Journal of Forest and Rangeland Protection
14) Ecology of Iranian Forests
15) Journal of Natural Ecosystems of Iran
16) Iranian Journal of Biology
17) Journal of Wood and Forest Science and Technology
18) Journal of Forest and Wood Products