PERSONAL INFORMATION:

Full Name: Jahangir Mohammadi

Nationality: Iranian

Academic Level: Associate Professor

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EDUCATION:

Ph.D., 2014. Forest biometry & remote sensing, Gorgān University of Agricultural Sciences & Natural Resources, Iran
M.S., 2009. Forest biometry & Remote sensing, Gorgān University of Agricultural Sciences & Natural Resources, Iran
B.S., 2004. Forestry, Gorgān University of Agricultural Sciences & Natural Resources, Iran

RESEARCH INTEREST:

Forest biometry, sampling, remote sensing, LiDAR, unmanned aerial vehicle (UAV), satellite data, Modeling of forest structure quantitative characteristics (above-ground biomass, stand volume, basal area, tree diversity indices, ALI and etc.,), regression, machine learning and deep learning.

PUBLICATION:

1. Ali, H., Mohammadi, J. and Shataee Jouibary, S., 2023. Allometric Models and Biomass Conversion and Expansion Factors to Predict Total Tree-level Aboveground Biomass for Three Conifers Species in Iran. Forest Science, p.fxad013.
2. McRoberts, R.E., Næsset, E., Heikkinen, J., Chen, Q., Strimbu, V., Esteban, J., Hou, Z., Giannetti, F., Mohammadi, J. and Chirici, G., 2022. On the model-assisted regression estimators using remotely sensed auxiliary data. *Remote Sensing of Environment*, *281*, p.113168.
3. Mohammadi, J. and Masoudi, N., 2022. Estimation beech (*Fagus Orientalis* L) and hornbeam (*Carpinus betulus* L) trees height using nonlinear models and mixed-effects model. *Forest and Wood Products*, *74*(4), pp.433-443.
4. Zahriban Hesari, M., Shataee, S., Maghsoudi, Y., Mohammadi, J., Fransson, J.E. and Persson, H.J., 2020. Forest Variable Estimations Using TanDEM-X Data in Hyrcanian Forests. *Canadian Journal of Remote Sensing*, *46*(2), pp.166-176.

5. Poorazimy, M., Shataee, S., McRoberts, R.E. and Mohammadi, J., 2020. Integrating airborne laser scanning data, space-borne radar data and digital aerial imagery to estimate aboveground carbon stock in Hyrcanian forests, Iran. *Remote Sensing of Environment*, *240*, p.111669.
6. Mohammadi, J., Shataee, S. and Næsset, E., 2020. Modeling tree species diversity by combining ALS data and digital aerial photogrammetry. *Science of Remote Sensing*, *2*, p.100011.
7. Ghiasi, F., Mohammadi, J., Fallah, A. and Moghadasi, D., 2020. Determination of the optimal sample plots size and shape in Arab-Dagh forests, Kalale city, Golestan province. *Forest and Wood Products*, *73*(1), pp.111-120.
8. Yazdani, M., Jouibary, S.S., Mohammadi, J. and Maghsoudi, Y., 2020. Comparison of different machine learning and regression methods for estimation and mapping of forest stand attributes using ALOS/PALSAR data in complex Hyrcanian forests. *Journal of Applied Remote Sensing*, *14*(2), p.024509.
9. Mousavi, S., Mohammadi, J., Shataee, S., 2017. The Evaluation of Potential Airborne Laser Scanner Data in Estimating of Individual Canopy Area and Tree Heights in Part of Educational and Research Shast-Kalate Forests-Gorgan. *Ecology of Iranian Forest*, *5*(9), pp.47-55.
10. Mohammadi, J., Mohammad Ali Pormalekshah, A.A. and Hatami, N., 2019. Allometric equations for estimating aboveground biomass for Paulonia trees (Paulownia fortunei) in the Dr. Bahramnia Forests Plan of Gorgan. *Forest and Wood Products*, *71*(4), pp.303-313.
11. Kordi, M.R., Mohammadi, J., Moayyeri, M.H. and Sadeghian, J., 2017. Determination of form factor for oriental beech (Fagus orientalis Lipsky) in Golestan province. *Iranian Journal of Forest and Poplar Research*, *25*(4), pp.598-608.
12. Mohammadi, J., Shataee, S., Namiranian, M. and Næsset, E., 2017. Modeling biophysical properties of broad-leaved stands in the hyrcanian forests of Iran using fused airborne laser scanner data and ultraCam-D images. *International Journal of Applied Earth Observation and Geoinformation*, *61*, pp.32-45.
13. Mohammadi, J., Shataee, S., Yaghmaee, F. and Mahiny, A.S., 2010. Modelling forest stand volume and tree density using Landsat ETM+ data. *International Journal of Remote Sensing*, *31*(11), pp.2959-2975.
14. Mohammadi, J. and Shataee, S., 2010. Possibility investigation of tree diversity mapping using Landsat ETM+ data in the Hyrcanian forests of Iran. *Remote Sensing of Environment*, *114*(7), pp.1504-1512.

ACADEMIC TEACHING EXPERIENCE:

Advanced sampling methods in forestry (Ph.D. student), Spatial statistics in forestry (Ph.D. student), Statistical methods in forestry (MSc. student), Forest biometry (MSc. student), Statistics (B.A. student), Forest measurement (B.A. student), Forest inventory (B.A. student)

LANGUAGES:

Persian (native); English