Fatemeh Ghafarian

Position: Scientist
Working Group "Provisioning of Ecosystem Services in Agricultural Systems"

Academic education and scientific degrees

Since 2019	Doctoral Researcher in Environmental and Natural Science
2013 – 2017	M.Sc. in Global Change Management
2004 – 2009	B.Sc. in Agriculture Engineering specializing in Hydraulic

Professional experience

Since 2023	■ Researcher in the working group "Governance of Ecosystem Services". ■ Assess the spatial potential for hedgerow and agroforestry establishment at field and landscape scales. ■ Model the impacts of hedgerow and agroforestry practices on the provision of ecosystem services (e.g., pollination, erosion control). ■ Examine the effects of various agroforestry practices and species combinations on the environment and agricultural yields. ■ Translate research outcomes into decision support rules. ■ Contribute to the analysis of trade-offs among multiple ecosystem services in agricultural landscapes to enhance our understanding of the relationships between agricultural production and environmental conservation
Since 2019	■ Doctoral Researcher in Research Platform "Data Analysis & Simulation". ■ Data mining and imputation in Python and SQL ■ Analysis of time series. under different spatial and temporal resolutions; ■ Analysis of geospatial data and remote sensing data
2018 – 2019	Application of Machine learning methods for analysing spatial and temporal data

Research Profile

Background	■ Agroforestry ■ Meteorology ■ Hydrology

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