



# Gunay Hasanli

Map Engineer

## Contact

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## About

I am a GIS engineer specializing in the development, analysis, management, and implementation of web-based databases using GIS and remote sensing technologies. I have participated in numerous local and international projects, contributing to the creation of the national Electronic Drinking and Wastewater Databases, the Building Identification Electronic Information System, and the Agricultural Information System (EKTIS). Currently, I am researching zoning-based management solutions for agricultural areas.

## Technical knowledge

- ArcGIS / ArcGIS Pro / QGIS
- MicroStation
- GeoSpatialist
- AutoCAD
- Electron Navigation System (ENC)
- CorelDraw
- Java
- Python
- GEE
- Google Colab
- PostgreSQL, PostGIS
- MS Office: Word, Excel, PowerPoint, Outlook

## Language

Azerbaijani (native), English (C1), Russian (B1),  
Turkish (B2), Italian (A1)

## Education

- Agricultural and Food sciences - PhD 2022 - 2026  
*University of Bologna (Italy)*
- Geodesy and Cartography - master 2012 - 2014  
*Baku State University (Azerbaijan)*
- Cartography 2008 - 2012  
*Baku State University (Azerbaijan)*
- Java developer 2018 - 2019  
*STEP IT Academy (Azerbaijan)*

## Experience

- The Ministry of Agriculture of Azerbaijan 2022-  
Head of division / Agro Research Center
- The Ministry of Agriculture of Azerbaijan 2021 - 2022  
Deputy head of department / Agro Research Center
- The Ministry of Agriculture of Azerbaijan 2018 - 2021  
Main expert/ Agro Research Center
- Baku State University 2014 - 2015  
Teacher / Cartography and Geodesy department
- Azerbaijan State Water Resources Agency (ADSEA) 2014 - 2018  
Main expert/ IT department
- Ministry of Ecology and Natural Resources 2013 - 2014  
GIS expert / Desertification Combat Project  
GIS expert / Preparation of electronic land base maps of the Republic of Azerbaijan
- Navy forces, Ministry of Defense 2012- 2014  
Surveyor / Preparation of electronic naval charts (confidential)

## Papers

- Comparison of zonation approaches by means of remote sensing vegetation indices for agricultural applications
- Multi-Criteria Analysis of Suitable Areas for Hazelnut Cultivation in Liberated Regions in Azerbaijan
- Development of a Multi-Scale Tomato Yield Prediction Model in Azerbaijan Using Spectral Indices from Sentinel-2 Imagery
- On the Use of Remote Sensing Vegetation Indices for Agricultural Zones' Delineation  
**Link:** [https://www.researchgate.net/profile/Gunay-Hasanli-2?ev=hdr\\_xprf](https://www.researchgate.net/profile/Gunay-Hasanli-2?ev=hdr_xprf)  
**Link:** <https://www.linkedin.com/in/gunay-hasanli-aa3b5663/>

## Achievements

- Winner of the State Program for 2019-2023 on the education of young people in prestigious higher education institutions of foreign countries
- General introduction to satellite techniques for monitoring the water cycle – (Certificate)
- AutoCAD (Certificate)
- Baku Regional Vocational Training Center - designer (Certificate)
- Academic Science Week - 2015 International Multidisciplinary Forum (Certificate)
- ArcGIS Pro: Essential Workflows (ESRI certificate)
- Geospatial Technologies and Remote Sensing - (UN certificate)