

Education

• Ph.D. in Climatology, University of Tabriz, Tabriz, Iran	2025 – Present
• M.Sc. in Environmental Climatology, University of Kurdistan, Sanandaj, Iran	2020 – 2022
• B.Sc. in Physical Geography, University of Kurdistan, Sanandaj, Iran	2016 – 2020

Research Interest

- Climatology	- Remote Sensing
- Climate Change	- Geographic Information Systems (GIS)
- Climate Extremes and Hazards	- Machine Learning in Climate Science

Publications

- [Evaluating the Effects of Vegetation, Zayandeh Rud River, and Urban Development on the Formation of Heat Islands in Isfahan Using Spatial Statistical Analyses — Weather, Climate, and Society, 2026](#)
- [Detection of Asymmetric Warming Signals and Intensification of Extreme Precipitation at Sardasht Synoptic Station during 1986–2025 — Climate Change and Climatic Hazards, 2025](#)
- [Spatial and Temporal Correlation Analysis of the Effects of Teleconnection Patterns on Temperature and Precipitation Variations in Western and Northwestern Iran — Climate Change and Climatic Hazards, 2025](#)
- [Assessing the Performance of Vegetation Indices in Drought Analysis Using Remote Sensing Techniques: Kurdistan Province — Environmental Research in Mountainous Regions, 2025](#)
- [Sustainable and Climate-Responsive Design in Mountainous Regions Using EPW Data and Climate Consultant Software: Sanandaj City — Geography and Planning, 2025](#)
- [Analysis of Drought Trends Using Satellite Imagery: West Azerbaijan Province — New Technologies in Geographical Sciences, 2024](#)
- [Analysis of Tourism Climate Conditions in West Azerbaijan Province Using Bioclimatic Indices — Geography and Environmental Planning, 2024](#)
- [Study of Thunderstorms in Iran — Spatial Analysis of Environmental Hazards, 2023](#)

Posters & Presentations

- **Poster Presentation:** [Spatial-Temporal Modeling of Climate Change Trends Using TN90p and DTR Temperature Indices: Kermanshah Province — 2025](#)
- **Poster Presentation:** [Climate-Responsive Architectural Design Strategies: Mahabad City — 2021](#)
- **Poster Presentation:** [Assessment of Thermal Stress in Urmia City Using Bioclimatic Indices — 2021](#)

Skills

- **Technical Skills:**
- **Programming:** Python, JavaScript, MATLAB
 - **Python Libraries:** NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, TensorFlow, Keras, Xarray, Rasterio, GeoPandas
 - **Software:** ArcGIS Pro, QGIS, ENVI, SPSS, RStudio, Google Earth
 - **Online Platforms:** Google Earth Engine (GEE), NASA Earthdata, Copernicus Climate Data Store (CDS), NASA Giovanni
- **Soft Skills:** Scientific & Academic Writing, Academic Presentation, Teamwork, Problem Solving, Research Collaboration, Data Analysis & Interpretation

Work Experience

Synoptic Meteorological Observer & Weather Crisis Management

Iran Meteorological Organization (IRIMO), Piranshahr Meteorological Office

February 2026 – Present

- Conduct synoptic meteorological observations and monitor atmospheric conditions and significant weather phenomena.
- Record, quality-check, encode, and transmit meteorological observations, including SYNOP and METAR reports.
- Operate and monitor meteorological station instruments and contribute to weather warning and crisis management activities.

Courses & Certificates

- **Cartography** — Esri Training, 2025
- **GIS for Climate Action** — Esri Training, 2025
- **The ArcGIS Imagery MOOC: Foundations and Frontiers** — Esri Training, 2025
- **Make an Impact with Modern Geo Apps** — Esri Training, 2025
- **Fundamentals of Remote Sensing** — NASA ARSET, 2025
- **Introduction to Remote Sensing** — Geo University, 2025
- **Remote Sensing and Satellite Image Processing with the EOS Platform** — Geo University, 2025
- **Orthorectification of Aerial Imagery through OrthoPhoto.IO** — Geo University, 2025
- **Hyperspectral Thermal Image Unmixing** — Geo University, 2025
- **Coordinate Reference Systems, Projections, and Spatial Data Representation** — Geo University, 2025
- **AI and Machine Learning Applications in Climate Change Analysis and Prediction** — Remote Sensing Academy, 2025
- **Project-Based ArcGIS Pro Training** — GISAMOOZ, 2025
- **Applied and Practical ArcGIS Training** — GISAMOOZ, 2025
- **Zero to Hundred ISI Article Writing** — Rangeland & Watershed Science & Engineering Association, 2025
- **ICDL User Certification** — Technical and Vocational Training Organization of Iran, 2025
- **Advanced Scientific Article Writing Workshop** — Iranian Geography and Urban Planning Association, Isfahan Branch, 2024
- **Principles of Aerial Image Interpretation and Applications of GPS & GIS in Agricultural Mapping** — Agricultural and Natural Resources Engineering Organization, 2024
- **Scientific Writing with Emphasis on SPI & SPEI Drought Indices** — Climatology.ir, 2024
- **ArcGIS Pro Basics** — Esri Training, 2024
- **Calculate Rates Using ArcGIS Pro** — Esri Training, 2024
- **Calculating Disparities in Pollution Exposure Using ArcGIS** — Esri Training, 2024
- **Collecting and Visualizing Data with ArcGIS QuickCapture** — Esri Training, 2024
- **Creating a Knowledge Graph from Structured Data Using ArcGIS Knowledge** — Esri Training, 2024
- **Downscaling a Prediction Model Using ArcGIS Notebooks and ArcGIS Pro** — Esri Training, 2024
- **Making Predictions from Multidimensional Data Using ArcGIS Online** — Esri Training, 2024
- **Mapping Racial Disparities in Breast Cancer Mortality Rates Using ArcGIS Pro** — Esri Training, 2024
- **Visualizing and Analyzing Crime Incidents Using ArcGIS Insights Online** — Esri Training, 2024
- **Performing Sales Data Analysis with ArcGIS Insights Online** — Esri Training, 2024
- **Advanced ArcGIS Pro** — SCS Training