

# Sabina Munir

---

[0323 9234966](tel:03239234966) | [munirsabina05@gmail.com](mailto:munirsabina05@gmail.com) | [linkedin.com/in/sabina-munir-192173296](https://www.linkedin.com/in/sabina-munir-192173296)

## Experience

### GIS ANALYST ZOENOMICS

APRIL 2025 – ONGOING

- Digitization process for flume data and zoning data, integrated with live mapping in QGIS for OpenStreetMap.
- Interpreting and applying the planning code, general plan, area plans, and other policy documents to create permitted land use and development controls data.
- Hands-on experience collaborating with teams to deliver GIS and mapping projects.

### GIS ANALYST GRAVITY SOLUTION

OCTOBER 2024 – DECEMBER 2024

- Digitized cadastral maps, transforming paper maps into precise digital formats for GIS applications
- Integrated multiple map sheets(mosaics),aligning and stitching them digitally for seamless use.
- Geo referenced maps to match real world coordinates while ensuring accurate overlay with other spatial data

### GEOSPATIAL AND HYDROLOGY ANALYST INTERN NATIONAL DISASTER MANAGEMENT AUTHORIT

JULY 2024- SEPTEMBER 2024

- Performing spatial analysis using GIS tools.
- Conducting flood modeling using HEC-RAS and HEC-HMS-.
- Developing forecasting models using pyClim for advanced flood prediction and analysis.

### INTERNEE PAKISTAN METROLOGICAL DEPERTMENT

JULY 2023 – AUGUST 2023

- Skillfully utilized ArcGIS for spatial analysis, mapping, and interpretation of geographical data.
- Cultivated effective problem-solving abilities through practical, hands-on experience.
- Collaborated with meteorology experts, gaining valuable insights into the field

## Education

### BEACHELOR IN SPACE SCIENCE

2020 - 2024

Institute of Space Technology

Major: Remote sensing and GIS

### FSC IN COMPUTER SCIENCE

2018 - 2020

Fauji Foundation College Of Girls

## Certification

- Public Leadership Basics – OpenLearn 5 NOVEMBER 2024
- Remote Sensing and Satellite Image Processing – GEO University 11 MAY 2024
- Image Processing Onramp (MATLAB) – MathWorks 18 AUGUST 2024

## Blog publication

- [Rice: Balancing Food Security And Environmental Challenges](#)
- [How the 2022 Flood Changed Pakistan's Perspective on Rainfall](#)

## Key Project

### DIAGNOSTIC ANALYSIS OF HEAVY PRECIPITATION EVENTS OF 2010 AND 2022 IN PAKISTAN USING CDO AND NETCDF LIBRARY

Conducted a comprehensive analysis of extreme precipitation events in Pakistan, focusing on the years 2010 and 2022. utilized **global precipitation measurement (GPM)** data (2000-2023), along with **Era5** and **NCAR** datasets, to examine the influence of key atmospheric factors, including **la niña**, **jet streams**, and the **Indian ocean dipole (IOD)**. the analysis aimed to identify the climatic drivers behind these heavy rainfall events and contribute valuable insights for improving flood forecasting, preparedness, and mitigation strategies in the region.

## Digital Skills & Abilities

- Python
- HECRAS
- ArcGIS
- Google Earth Engine
- SQL
- R and R Studio
- Cdo and Netcdf library
- Leaflet
- HTML and CSS
- MS Excel