



# Center for Atmospheric And Climate Sciences

Environmental Engineering Division  
Department of Civil Engineering, IIT Madras



## About Me

I am a Research Scholar at the Department of Civil Engineering, Center for Atmospheric & Climate Sciences, Indian Institute of Technology (IIT) Madras. With a B.Tech in Civil Engineering and M.Tech in Environmental Engineering, I strongly aspire to advancing novel approaches for critical environmental problems. I have extensively worked in Multi-Sensor Remote Sensing Data Integration for Atmospheric Pollutants Monitoring and Mapping apart from the Persistent Scatterer Synthetic Aperture RADAR (PSInSAR) based Surface Displacement Modeling and Estimation. I have an expertise in Machine Learning Models and Hybrid Learning Automated Algorithms.

## Research Interest

- Remote Sensing of the Atmosphere, Urban Modelling and Climate Change
- Urban Air Quality and Aerosol Science
- Big Data Analytics, Machine Learning and Multi-Sensor Data Integration for Environmental Impact Analysis
- SAR Interferometry and Geospatial Analysis for Urban Growth Monitoring and Risk Assessment

## Skills

- Deep Learning Multi-layer Perceptron Models, Cellular Automata Models, Digital Image Processing
- ArcGIS, QGIS, Google Earth Engine (GEE), AutoCAD
- Python, MATLAB, Big Data Analytics, Artificial Intelligence and Machine Learning



**Arjuman Rafiq Reshi**  
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