



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



About Me

I am an atmospheric scientist, currently pursuing doctoral research as a DST-INSPIRE Fellow at the Environmental Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras. I hold a Master's degree in Atmospheric Sciences and Meteorology from the Central University of Rajasthan, Jaipur. With a strong academic foundation and a passion for research, I am committed to advancing my career in meteorology, numerical modeling of atmospheric processes, and scientific research to enhance our understanding of atmospheric processes in Earth Sciences.

Research Interest

- Research focuses on atmospheric and climate sciences, with a particular interest in air quality challenges over India.
- Utilizes advanced numerical models (global and regional) to study air pollution.
- Currently working with 3D-GEOS-Chem and WRF-ARW models to analyze Impact of anthropogenic chlorine chemistry and urban expansion on reduced visibility and severe air pollution.

Skills

- WRF-STILT, CAABA-MECCA Box Model, HYSPLIT, MATLAB, Python, R GrADS.
- Hands-on experience with laboratory instruments: - Total Organic Carbon (TOC) analyzer, Ion Chromatography.
- Currently learning to operate the PTR-MS instrument.



Ankit Patel
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Ph.D. Scholar (SRF)
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Advisor
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