



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



About Me

I am an atmospheric scientist, currently in the final leg of my doctoral research as a Prime Minister's Research Fellow (PMRF) at the Environmental Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras. I hold a Master's degree in Environmental Sciences from the Panjab University, Chandigarh and a Bachelor's in Botany (Hons) from the University of Delhi, New Delhi. With a strong academic foundation and a passion for research, I am committed to advancing my career in experimental research revolving around atmospheric aerosols, aerosol-climate-precipitation interactions, New Particle Formation (NPF) and other atmospheric processes in important for climate research.

Research Interest

- Research focuses on atmospheric and climate sciences, with a particular interest in aerosol-cloud interactions over India.
- Employing highly-sophisticated equipment like Size-resolved CCN counter, ACSM, SMPS, and Aethalometer for real-time, online characterization of ambient aerosols.
- Mainly interested in the understanding influence of anthropogenic emissions and meteorological variability on secondary aerosol formation processes and the cloud-forming potential of these secondary aerosols.

Skills

- Experimental Equipment: SR-CCN, ACSM, SMPS, AE-33, PTR-MS, Nano-HTDMA, Low and High volume PM samplers.
- Computational Skills: MATLAB, Python, IgorPro, HYSPLIT, AIM, LaTeX.
- Others: DNA extraction and analysis techniques, PCR, Electrophoresis, ICP-MS, Gas Chromatography, AAS, Water & Wastewater assessment techniques.



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