



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



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About Me

I am an atmospheric scientist currently pursuing doctoral research as a UGC-SRF at the Environmental Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras. I hold a Master's degree in Environmental Sciences from Banaras Hindu University, Varanasi. My research involves using a Quartz Crystal Microbalance (QCM) to study the interactions between aerosols and water vapor. I also investigate the effects of photodegradation on aerosols collected from various regions across the Indian subcontinent. This work aims to enhance our understanding of how changes in aerosol properties influence cloud formation and precipitation, as well as to provide insights into the atmospheric aging and lifespan of these particles.

Research Interest

- Aerosol hygroscopicity and the effects of photodegradation on aerosol properties.
- Advanced instrumentation like Quartz Crystal Microbalance.
- Aerosol chemistry and aerosol-cloud climate interactions.

Skills

- IgorPro, Adobe Illustrator, ISORROPIA, AIM, MS Office, Python
- Hands-on experience with laboratory instruments: QCM, Potential Aerosol Mass – Oxidation Flow Reactor (PAM-OFR), Scanning Mobility Particle Sizer (SMPS)

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