



Center for Atmospheric and Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



About Me

I am currently a Postdoctoral Researcher at the Centre for Atmospheric Climate Sciences, IIT Madras. I hold a Ph.D. in Earth Sciences from the Physical Research Laboratory (PRL), Ahmedabad, with the degree awarded by the Indian Institute of Technology Gandhinagar (IITGN). My doctoral research focused on the source apportionment and optical properties of carbonaceous aerosols across different regions of India, using stable and radiocarbon isotopic measurements. I also hold a Master's degree in Geophysics from Cochin University of Science and Technology (CUSAT) and a Bachelor's degree in Physics from Kannur University.

Research Interest

- Identifying major sources of carbonaceous aerosols and quantifying their contributions.
- Estimating the proportion of locally emitted versus transported aerosols in different environments.
- Investigating the optical properties of primary and secondary organic aerosols and their changes during transport.

Skills

- Expert in conducting isotopic measurements of aerosols and trace gases, with proficiency in data correction and interpretation.
- Skilled in operating advanced aerosol instrumentation, including HR-ToF-AMS, aethalometers, spectrometers, and chromatography systems.
- Experienced in performing trace gas measurements using CO, NO_x, and other gas analyzers.
- Currently gaining expertise in operating oxidation flow reactors and integrating them with aerosol measurement instruments.



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