



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



About Me

A dedicated Civil Engineer with a master's in Remote Sensing and Geographic Information System (GIS), currently pursuing PhD at Center for Atmospheric and Climate Sciences, IIT Madras. Specializing in innovative research in environmental engineering studies, focusing on air pollution and its climate change-driven impacts on public health. Passionate about leveraging advanced technologies to address global environmental challenges.

Research Interest

- Chemical characterization of atmospheric aerosols using advanced instrumentations like mass spectrometry.
- Cellular and acellular assays for assessing the oxidative potential of aerosols.
- Study of health-related properties, particularly about radical species in the particulate matter (PM) using electron paramagnetic resonance (EPR) spectroscopy for plastic burning generated PM.

Skills

- Arc GIS, MATLAB, AutoCAD
- Hands-on experience with laboratory instruments- EPR spectrometer, gas chromatography-mass spectrometry (GC-MS), inductively coupled plasma-mass spectrometry (ICP-MS), spectrophotofluorometer, Ion Chromatography (IC), scanning mobility particle sizer (SMPS) and cloud condensation nuclei (CCN) counter.
- Currently learning the operation and data analysis of aerosol chemical speciation monitor (ACSM).



Rizana Salim

Ph.D. Scholar
Fulbright-Kalam Climate
Doctoral Fellow

Advisor

Sachin S. Gunthe

Contact Me:

Mob: +91 8129057369

rizana@cacs.iitm.ac.in

Room No. 302, 3rd Floor, NAC-2

