



# Center for Atmospheric And Climate Sciences



Environmental Engineering Division  
Department of Civil Engineering, IIT Madras



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**Ph.D. Scholar**

**Advisor**

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## About Me

I am a doctoral researcher in the Department of Chemical Engineering at the Indian Institute of Technology Madras and hold a Master's degree in Environmental Sciences from the Central University of Jharkhand. My research focuses on studying how antimicrobial resistance (AMR) spreads in the environment, especially through aerosols, water, and sediment. I aim to better understand the processes behind AMR movement and its impact to enhance our knowledge of AMR dynamics and contribute to developing strategies for mitigating its environmental impact.

## Research Interest

- Research focuses on Fate and transport studies of AMR in bioaerosols, with a particular interest in challenges over India.
- Utilized LCMS-MS for the detection of antibiotic residues in water and sediment.
- Currently working with study of ARGs, MGEs in environmental compartments and aerosolization mechanism of microbes.

## Skills

- Google Collab- Python, JMP
- Hands-on experience with laboratory instruments: - Liquid Chromatography-Tandem Mass Spectrometry, Total Organic Carbon (TOC) analyzer, UV visible spectroscopy, fluorescence microscopy, Solid phase extraction, rotary evaporator etc.

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