



# Center for Atmospheric And Climate Sciences



Environmental Engineering Division  
Department of Civil Engineering, IIT Madras



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## About Me

I am a researcher currently pursuing a Master's degree in the Environmental Engineering Division, Department of Civil Engineering at IIT Madras. I hold a B.Tech in Civil Engineering from NIT Srinagar. My research focuses on understanding the relationship between cognitive processes, language proficiency, and physiological responses.. Specifically, I am investigating the cognitive state of individuals and its relationship with volatile organic compounds (VOCs) exhaled in breath. This work aims to enhance our understanding of cognitive processes through physiological and environmental markers.

## Research Interest

- Studying the relationship between language proficiency, cognitive load, and physiological responses.
- Analyzing exhaled VOCs to understand cognitive stress and mental workload.
- Utilizing psychophysiological data for assessing cognitive performance.
- Exploring real-time data acquisition and analysis for human-environment interactions.

## Skills

- Hands-on experience with laboratory instrument:- PTR-MS
- Experience with physiological data acquisition and VOC analysis
- Working with real-time data processing techniques for research applications.