



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



Snehitha Kommula

M.S
2018- 2021

Advisor
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Present status

I am an early career researcher in atmospheric science, pursuing a Ph.D. in the Department of Technical Physics at the University of Eastern Finland.

About Me

I completed my master's thesis at IIT Madras in 2021, specializing in characterizing aerosol chemical composition and source apportionment of organic aerosols. I've always been curious about how human activities (air pollution) affect climate dynamics, and now I get to explore that through my Ph.D. research on "Warming climate and Wildfires: Impact of biomass-burning emissions on aerosol and cloud properties at high latitudes". It's exciting because it blends atmospheric physics, chemistry, and real-world impact."

Research Interest

- My current work focuses on characterizing biomass burning emissions at source through field and laboratory experiments, with a particular interest in SOA formation under photochemical and dark aging.
- I use advanced online instruments (Aerosol mass spectrometer) and tools like Positive matrix factorization to understand the evolution of aerosols with atmospheric aging.

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