



Center for Atmospheric And Climate Sciences

Environmental Engineering Division
Department of Civil Engineering, IIT Madras



**Nidhi Loknath
Anchan**

M.S by Research
2021- 2024

Advisor
Sachin S. Gunthe

Contact Me:

nidhi.anchan@cacs.iitm.ac.in
a.nidhiloknath@wustl.edu



Present status

I am a Ph.D student in the Energy, Environmental and Chemical Engineering Department of the McKelvey School of Engineering at Washington University in St. Louis, MO, USA.

About Me

I graduated with an M.S. from IIT Madras in 2024, where my research focused on investigating the variation of carbonaceous Aerosol Optical Depth (AOD) under two Representative Concentration Pathway (RCP) scenarios. By integrating satellite observations with GEOS-Chem model simulations, I analyzed the long-term trends (2000–2100) and assess the effectiveness of air pollution mitigation policies targeting emissions from anthropogenic activities and biomass burning.

Research Interest

- Research interests include atmospheric and climate modeling, with a focus on the health implications of air pollution.
- Currently working with GEOS-Chem and WRF-GC models.