

FNU ANSHIKA

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3720 W Alabama St,

Houston, Texas.

PROFILE

Developing expertise in climate risk assessment and environmental regulations. Experience in data analysis for plastic emissions, greenhouse gas inventories, and climate research. Capable of conducting investigations and producing clear, data-driven reports to support environmental decision-making.

SKILLS AND INTERESTS

- R, MS Office, Origin Pro, Python, Two-dimensional Gas Chromatograph- Mass Spectrometer, Rotary Evaporator.
- Organizational along with oral and written communication skills with a detailed oriented creative thinking.

EDUCATION

University of Houston Houston, Texas

Ph.D., Atmospheric Sciences CGPA: 3.95 *Currently enrolled*

Φ Eckhard Pfeifer/Carolyn - Farb Scholarship Recipient *June 2025*
Awarded By: NSM Alumni Association

Φ UH- Chevron Energy Graduate Fellows Award (2024-25 cohort) *August 2024*

Φ Eckhard Pfeifer/Carolyn - Farb Scholarship Recipient *June 2024*
Awarded By: NSM Alumni Association

Φ Student Research Grant *October 2023*
Awarded By: Department of Earth and Atmospheric Sciences, University of Houston
The Research topic that was granted the award "Development of an Analytical Method to determine Airborne Phthalates".

J.C. Bose University of Science and Technology Haryana, India

M.Sc., Environmental Sciences CGPA: 9.65 *Completed: June,2019*

Φ Vice Chancellor Gold Medal *August 2020*

Hansraj College, University of Delhi Delhi, India

B.Sc. Life Sciences CGPA: 8.7. *Completed: July,2017*

EMPLOYMENT HISTORY

Φ **Graduate Teaching Assistant** *Aug 15, 2022 – currently working.*
Department of Earth and Atmospheric Sciences, University of Houston, Houston, Texas.

- Developed lesson plans that incorporated a variety of teaching methods, resulting in improved student learning outcomes along with VBA programming and working with spreadsheets.

Φ **UH Energy Research Intern** *June 01,2025 – Aug 17, 2025*
Energy Transition Institute , University of Houston, Houston, Texas.

- Worked on Extended Producer Responsibility (EPR) of plastic packaging in U.S., Canada and E.U.

- Φ **Summer Engineering Intern** June 05, 2023 – Aug 17, 2023
 Air Quality Modelling Division, Texas Commission on Environmental Quality, Austin, Texas.

 - Worked on Air Quality modelling - WRF modelling for Houston, Dallas, and El-Paso region.
- Φ **Project Junior Research Fellow** Feb 18, 2020- Aug 18, 2020
 Department of Civil Engineering, Indian Institute of Technology, Delhi.

 - The project involved the development of emission inventory for Punjab (7 cities).
- Φ **Project Assistant** Oct 1, 2019- Nov 30, 2019
 Centre for Atmospheric Sciences Indian Institute of Technology, Delhi.

 - The project involved the data analysis of the 13 years data of 21 pollutants for 6 stations in Kuwait region as a project assistant for 2 months on temporary basis.
- Φ **Project Assistant** July 1, 2018- Dec 31, 2018
 Department of Environmental Sciences, J.C Bose University of Science and Technology, Faridabad.

 - The project involved survey of about 100 houses along with collection of household waste. Organic waste was separated from the household waste and was used to prepare vermicompost.
- Φ **Summer Research Intern** June 1, 2018- July 31, 2018
 Central pollution Control Board of India (CPCB), Parivesh Bhawan, East Arjun Nagar, Delhi

 - The manual analysis of Benzo-a-pyrene using Gas chromatography coupled with mass spectrophotometer.
- Φ **Research Project** January 2017- June 2017
 Hansraj college, University of Delhi, Delhi, India

 - Qualitative analysis of water from River Yamuna at selected sites in Delhi

PEER REVIEWED PUBLICATIONS

- Φ **Anshika**, Soneye, O. O., Rappenglueck B., (2026) Evaluating Diffuse Radiation Models: A 20-Year Case Study in Houston and Implications for Solar Panel Tilt Optimization (Submitted : Theoretical and Applied Climatology)
- Φ Sharma S., Zhang M., **Anshika**, Gao J., Zhang H., Kota S. H., (2020) Effect of restricted emissions during COVID-19 on air quality in India, Science of The Total Environment, 278, 138878, doi: 10.1016/j.scitotenv.2020.138878
- Φ **Anshika**, Kunchala R.K., Attada R., Vellore R.K., Soni V.K., Mohan M., Chilukoti N. (2021) On the understanding of surface ozone variability, its precursors and their associations with atmospheric conditions over the Delhi region. Atmospheric Research, 258, 105653, doi: 10.1016/j.atmosres.2021.105653

AWARDS, PRESENTATIONS AND EXTRA CURRICULAR ACTIVITIES

- Φ 32th Dobrin Lecture, University of Houston - Poster Presentation, February 2026
- Φ Best Teaching Assistant Award May, 2025
- Φ Best Oral Presentation award, Science research day May, 2025
- Φ 2025 UH Energy Symposium - Plastics Circularity – Poster Presentation, April, 2025
- Φ American Meteorological Society UH Chapter, Vice-President 2025- current
- Φ UH Energy Coalition, Vice chair Membership 2025- Current
- Φ Sheriff Lecture, University of Houston - Poster Presentation, November 2024
- Φ Science Research Day organizing committee – member 2024
- Φ Best Oral Presentation award, Science research day April, 2024
- Φ International Conference on “Environmental Challenges and Solutions”, Manav Rachna University, Haryana. -Presenter, February 2020
- Φ **1st Prize** in Scientific Poster Presentation, Department of Environmental Sciences, J.C. Bose University of Science and Technology. - April 2018
- Φ **1st Prize** in Scientific Poster Presentation, titles – “Air pollution in Delhi-NCR.”, J.C. Bose University of Science and Technology. -October 2017