Amit Kumar Pandit

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Bio:

I am currently a Research Scientist at the National Institute of Aerospace (NIA) in Hampton, Virginia. Prior to joining NIA in 2020 as a postdoc, I was a NASA Postdoctoral Program (NPP) Fellow at NASA Langley Research Center in Hampton from 2018-2020 and a postdoctoral fellow at Physical Research Laboratory, Ahmedabad in India from 2017-2018. My doctoral research was done at National Atmospheric Research Laboratory, Gadanki in India during 2010-2017.

Education:

Ph.D. Physics, 2017, Sri Venkateswara University, Tirupati, India
M.Sc. Physics, 2009, Banaras Hindu University, Varanasi, India
B.Sc. Physics, 2007, University of Burdwan, Burdwan, India

Research Interests:

- Microphysics and formation mechanism of tropical cirrus clouds.
- Response of cirrus clouds to climate change, volcanic aerosols and Stratospheric Aerosol Injection.
- Impacts of volcanic, overshooting and pyroCb plumes on the stratospheric composition.
- Balloon-borne measurements of aerosols, clouds, and water vapor.
- Lidar and satellite remote sensing of atmospheric composition.

Awards and Honors:

- NASA Group Achievement award for the REAS and BraVo projects (2025).
- NASA Group Achievement award for the DCOTSS project (2024).
- NASA Group Achievement award for the BATAL project (2019).
- NASA Postdoctoral Program (NPP) Fellowship at NASA Langley Research Center (2018).
- Postdoctoral Research Fellowship from Department of Space, Government of India (2017).
- Senior Research Fellowship (SRF) from Department of Space, Government of India (2012).
- Junior Research Fellowship (JRF) from Department of Space, Government of India (2010).

External Links:

NASA ESPO: https://espo.nasa.gov/arcsix/person/Amit_Pandit
Google Scholar Citations: https://scholar.google.com/citations?user=20WiwwMAAAAJ&hl=en
LinkedIn: https://www.linkedin.com/in/amit-kumar-pandit-5279a1283/
ResearchGate: https://www.researchgate.net/profile/Amit_Pandit2