

Curriculum Vitae

Personal details

Surname: Thomas
 First name: Abin
 ORCID: [0000-0003-0973-0002](https://orcid.org/0000-0003-0973-0002)
 Date of CV: 23-April-2025

Degree

Date	Degree	Subject	Institution	Location	Contact
24.02.2022	Ph.D.	Earth and Space Sciences	University of Hyderabad	Hyderabad, India	E-mail: ce@uohyd.ac.in
14.06.2016	M.Sc.	Ocean and Atmospheric Sciences	University of Hyderabad	Hyderabad, India	E-mail: ce@uohyd.ac.in
20.05.2014	B.Sc.	Physics	University of Calicut	Kozhikode, India	E-mail: ce@uoc.ac.in

Current employment

Duration 01.08.2022 - 31.07.2025
 Job Title: Postdoctoral Researcher; Full-time
 Employer: INAR, University of Helsinki
 Career stage: Level-2

The main research theme is Forest-atmosphere interaction using eddy covariance flux measurements. Currently working on a project titled "For Climate: Managing Forests for Climate Mitigation"

Previous work experience

- **August 2017 - February 2022:** Ph.D. student (Full-time), University of Hyderabad. Thesis title: Aerosol and cloud radiative properties over India and adjoining Seas. Tasks: Teaching, Data analysis, publication of results
- **October 2016 - June 2017:** Project Assistant (Full-time), University of Hyderabad. Project: A climatological perspective of cloud radiative forcing over the Indian summer monsoon region. Tasks: Data analysis, publication of results
- **February - June 2016:** Master thesis(part-time), Indian Institute of Tropical Meteorology, Pune, India. Project: Impact of the odd-even scheme on air quality in Delhi during the winter of 2015-16. Tasks: Data analysis, publication of results
- **April - June 2015:** Summer Research Fellow (Full-time; under Indian Academy of Sciences-Summer Research Fellowship Program), Vikram Sarabhai Space Centre, Trivandrum, India. Project: Aerosol optical depth from satellite-borne and ground-based measurements. Tasks: Data analysis, reporting on the results

Research funding and grants

- June 2018 - May 2020: Junior Research Fellowship (31,000 INR per month)
- June 2020 - Feb 2022: Senior Research Fellowship (35,000 INR per month)

Both fellowships are personal grants from the University Grants Commission, Govt. of India, after

clearing a national competitive examination (Joint CSIR UGC NET examination).

Research output

Publications:

- **Thomas, A.**, V. P. Kanawade, C. Sarangi, and A. K. Srivastava, "Effect of COVID-19 shutdown on aerosol direct radiative forcing over the Indo-Gangetic plain outflow region of the bay of Bengal," *Science of The Total Environment*, vol. 782, p. 146 918, 2021, ISSN: 0048-9697. doi:[10.1016/j.scitotenv.2021.146918](https://doi.org/10.1016/j.scitotenv.2021.146918) (Lead author: conception, data analysis, writing)
- A. Bhattacharya, **A. Thomas**, V. K. Soni, P. S. Roy, C. Sarangi, and V. P. Kanawade, "Opposite trends in heat waves and cold waves over India," *Journal of Earth System Science*, vol. 132, no. 2, p. 67, Apr. 2023, ISSN: 0973-774X. [10.1007/s12040-023-02069-2](https://doi.org/10.1007/s12040-023-02069-2) (Co-author and co-supervisor: conception, data analysis, writing)
- **Thomas, A.**, C. Sarangi, and V. P. Kanawade, "Recent increase in winter hazy days over central India and the Arabian Sea," *Scientific Reports*, vol. 9, no. 1, p. 17 406, Nov. 2019, ISSN: 2045-2322. doi:[10.1038/s41598-019-53630-3](https://doi.org/10.1038/s41598-019-53630-3) (Lead author: conception, data analysis, writing)
- C. Sarangi, V. P. Kanawade, S. N. Tripathi, **A. Thomas**, and D. Ganguly, "Aerosol-induced intensification of cooling effect of clouds during Indian summer monsoon," *Nature Communications*, vol. 9, no. 1, p. 3754, Sep. 2018, ISSN: 2041-1723. doi:[10.1038/s41467-018-06015-5](https://doi.org/10.1038/s41467-018-06015-5) (Co-author: data analysis, writing)

Teaching merits

2024 - 2025

University pedagogy 2.1: Constructive alignment in course design, Centre for University Teaching and Learning (HYPE), University of Helsinki (Pedagogy training passed; credits 5)

Field course in Micrometeorology and Hydrology, University of Helsinki (Teaching, course updation, exercises and technical assistance)

2023 -2024

University pedagogy 1: Learning in higher education, Centre for University Teaching and Learning (HYPE), University of Helsinki (Pedagogy training passed; credits 5)

Forests and peatlands as modifiers of atmospheric composition, University of Helsinki, (Teaching: Guest lecture on Carbonyl sulfide)

2019-2021

Remote Sensing: Practicals, University of Hyderabad (Teaching part 60% for 3 academic years, organizing course and material)