

Soumya Satyakanta SETHI

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EDUCATION

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| POSTGRADUATION
2019-CURRENT | PhD in ATMOSPHERE & OCEAN SCIENCES
School of Earth, Ocean and Climate Sciences
Indian Institute of Technology Bhubaneswar, Bhubaneswar
Area of Research: Urban Climate
Advisor: Dr. V. VINOJ |
| POSTGRADUATION
2017-2019 | M.Tech. in CLIMATE SCIENCE & TECHNOLOGY
School of Earth, Ocean and Climate Sciences
Indian Institute of Technology Bhubaneswar, Bhubaneswar
Thesis : Urban heat islands over Indian cities and their changes
owing to aerosols and clouds Advisor: Dr. V. VINOJ
CGPA: 9.09/10 |
| GRADUATION
2013-2017 | B.Tech. in MECHANICAL ENGINEERING
Department of Mechanical Engineering
National Institute of Technology Rourkela, Rourkela
Thesis : Study on Flow Dynamics of a Moving Water Droplet
under the Action of Heated Shear Flow Advisor: Dr. Suman. GHOSH
CGPA: 7.83/10 |

RESEARCH PUBLICATIONS

1. Sethi SS & Vinoj V (2024).Urbanization and regional climate change-linked warming of Indian cities. *Nature Cities*. doi10.1038/s44284-024-00074-0
2. Sethi SS, Vinoj V, Gogoi PP, Landu K, Swain D & Mohanty UC (2023). Spatio-temporal evolution of surface urban heat island over Bhubaneswar-Cuttack twin city: a rapidly growing tropical urban complex in Eastern India. *Environment, Development, and Sustainability*, 1-22. doi10.1007/s10668-023-03254-5
3. Nandini G, Vinoj V, Sethi SS, Nayak HP, Landu K, Swain D & Mohanty UC (2022). A modelling study on quantifying the impact of urbanization and regional effects on the wintertime surface temperature over a rapidly-growing tropical city. *Computational Urban Science*, 2, 40. doi10.1007/s43762-022-00067-6
4. Sethi SS, Dutta SK, Jayant & Kumar M (2018). Techno-economic analysis of chemical looping system for Indian power plants. *Environmental Technology & Innovation*, 9, 16-29. doi10.1016/j.eti.2017.10.004

CONFERENCE

1. **Sethi SS** and Vinoj V (2023). Evolving Urban Heat Island in the Era of Climate Change: A Study Over a Tropical Twin City Region in Eastern India. *AOGS 20th Annual Meeting (AOGS23)*. 2023 Jul 30-Aug 04, Singapore. (Oral presentation)
2. **Sethi SS** and Vinoj V (2022). Evolving Urban Thermal Climate over Indian Cities. *AGU Fall Meeting*. 2022 Dec 12-16, Chicago, USA. (Poster, Virtual mode)
3. **Sethi SS** and Vinoj V (2022). Urbanization and the Evolving Heat Islands over the Indian Region. *2022 IAUC Virtual Poster Conference*, 2022 Aug 30 – Sep 1, Sydney, AUSTRALIA. (Poster, Virtual mode)
4. **Sethi SS** and Vinoj V (2021). Changing surface temperature and rainfall over a rapidly growing twin city in eastern India. *International Symposium on Tropical Meteorology (INTROMET-2021)*, 2021 Nov 23-26, Cochin University of Science & Technology, Kerala, INDIA. (Poster, Virtual mode)
5. **Sethi SS** and Vinoj V (2020). Urbanization induced changes to Land surface temperature and rainfall over a rapidly growing city in Eastern India: A satellite remote sensing perspective. *14th Graduate Climate Conference*, 2020 Oct 30-Nov 1, Washington, USA. (Poster, Virtual mode)

TRAINING & WORKSHOP

MAR 13-24, 2023	Training Course on Satellite Meteorology and its Application in Numerical Weather Prediction Organised by <i>North Eastern Space Application Centre (NESAC), Dept. of Space, Govt. of India</i>
NOV 7-8, 2022	Urban Air Quality Management and Training on UrbAirIndia Organised by <i>Centre for Development of Advanced Computing (C-DAC) & Central Pollution Control Board (CPCB), India</i>
MAR 22-27, 2021 [virtual mode]	Training Program on Modelling Air Quality and Hydro-meteorological Extremes over Indian Mega-cities Organised by <i>Department of Civil Engineering, Indian Institute of Technology Madras</i>
FEB 22-28, 2021 [virtual mode]	International workshop on ICTP Regional climate model: Applications over South Asia CORDEX domain Organised by <i>Department of Physics, Dibrugarh University</i>
OCT 15-18, 2019	TERI-NORCE Research School on 'Towards data science in climate research: perspectives on climate extremes' Organised by <i>The Energy and Resources Institute (TERI)</i> in collaboration with <i>NORCE, Norway</i> Awarded full funding for attending the workshop

MAR 12-15, 2019 | **International Workshop on Chemistry Climate Interaction**
Organised by *Indian Institute of Tropical Meteorology, Pune*
Awarded full funding for attending the workshop

TECHNICAL SKILLS

Programming language: MATLAB, Fortran, R, TeX (for word processing in LaTeX)
Tools: MATLAB, Python, ArcGIS, Panoply, RStudio
Operating tools: CDO, NCO
Models: WRF, ROMS. (Basic Knowledge)
OS: Linux, Windows, MacOS

SCHOLARSHIPS AND CERTIFICATES

- **CSIR-NET fellowship** to pursue PhD at IIT Bhubaneswar
- Qualified **Joint CSIR-UGC NET Exam (June 2018)** in *Earth Sciences* (AIR: 68)
- **MHRD fellowship** to pursue M.Tech at IIT Bhubaneswar
- Qualified **GATE 2017** in *Mechanical Engineering*
- **Medhabruti (Technical & Professional) Scholarship** by Department of Higher Education (Govt, of Odisha) to pursue B.Tech at NIT Rourkela