

Dr. Rajat Subhra Chatterjee

Former Scientist 'G' & Head of the Geosciences Department, and Group Director of the Geosciences & Disaster Management Group at the Indian Institute of Remote Sensing (IIRS), ISRO.

Academic Profile:

- Ph.D. in Geology: IIT Kharagpur (2002), with a thesis rated "Excellent".
- Post-Doctoral Research: University of Marne-la-Vallée, France (2004-2005).
- Advanced Degrees: Master's in Remote Sensing from University of Pierre & Marie Curie, France (2001); M.Tech and M.Sc. in Applied Geology from IIT Kharagpur.

Expertise and Research:

- Specializes in Remote Sensing & GIS-based Earth and Planetary Studies, with a focus on Microwave Interferometric SAR and Thermal Remote Sensing.
- Key research areas include groundwater depletion modelling, mining-induced land subsidence, and Himalayan geodynamics.
- Over 27 years of teaching experience in geological resource appraisal and hazard assessment.

Professional Impact:

- **Supervision:** Successfully guided 13 Ph.D. students to completion and mentored one post-doctoral researcher.
- **Project Leadership:** Executed 13 Research Projects (including 4 international) and 5 large-scale national operational projects.
- **Publications:** Published 63 papers in referred journals and 66 papers in national/international symposia.

Major Achievements

- National Recognition and Awards:
 - Received the WCDM-DRR Award in "Disaster Preparedness" (2024).
 - Honored with the ISRO Team Excellence Award for the National Geomorphological and Lineament Mapping Project (2015).
 - Recipient of the P.R. Pisaroty Memorial Award (National Remote Sensing Award) from the Indian Society of Remote Sensing (2010).
 - Awarded the Silver Medal at IIT Kharagpur for ranking first in his M.Tech. class.
- Scientific and Technical Leadership:
 - Serving as a Solid Earth Science Team Member for the prestigious NASA-ISRO SAR (NISAR) project.
 - Elevated to IEEE Senior Member in the Geoscience & Remote Sensing Society (2021).

- Holds an IPR Copyright for a co-developed method for the "Assimilation of Digital Elevation Models" (2020).
- International Collaborations:
 - Led and participated in collaborative R&D projects with world-renowned space agencies, including NASA/JPL, ESA (Europe), JAXA (Japan), and DLR (Germany).
- Administrative Excellence:
 - Served as Course Director for the IIRS M.Tech. Programme, where he successfully implemented the Choice Based Credit System (CBCS).
 - Acted as Chairman of the IIRS M.Tech. Entrance Examination Conduct Committee.