

Name Dr. Amrita Daripa
Date of birth 10.09.1984
Designation Scientist (Sr. Scale)
Qualification MSc, PhD (Environmental Sciences)
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Educational Qualifications

- Ph.D (Environmental Sciences), ICAR- Indian Agricultural Research Institute, New Delhi.
- M.Sc (Environmental Sciences), ICAR- Indian Agricultural Research Institute, New Delhi
- B.Sc. (Agriculture.) Uttar Banga Krishi Viswavidyalay (UBKV), Coochbehar, West Bengal.

Professional Experience

- Scientist (Sr. Scale) at ICAR- NBSS&LUP, RC- Kolkata from 10.03.2022 till date.
- Scientist (Sr. Scale) at ICAR- NBSS&LUP, Nagpur from 01.01.2018 to 09.03.2022.
- Scientist at ICAR- NBSS&LUP, Nagpur from 04.04.2014 to 31.12.2017.
- Scientist at NAARM, Hyderabad from 01.01.2014 to 31.03.2014.
- Served as Assistant Professor and Coordinator, Centre for Environmental Sciences, Central University of Jharkhand, Ranchi from August 2012 to January 2013.

Research Areas

- Heavy metal pollution in soil and water
- Bioaccumulation of heavy metals in food chain
- Greenhouse gas emission from agriculture
- Ecological health risk evaluation in peri-urban agriculture
- Land degradation vulnerability assessment
- Land use land cover change study in GIS environment
- Climate smart land use planning
- Climate change
- Air pollution

International Experience - Nil

Awards

- Vigyan Sathi Award by Department of Science and Technology and Bio Technology, Government of West Bengal, 2024
- Pradeep Memorial Award for Best Student at Division of Environmental Sciences

Honours/Recognitions

- DST-INSPIRE Fellowship, 2010.
- UGC NET-JRF in Environmental Sciences, 2010.
- CSIR-UGC NET-JRF in Earth, Atmosphere and Planetary Sciences, 2010.
- IARI, 2010. IARI Merit Fellowship, 2009 (All India Rank-2).
- Junior Research fellowship-ICAR, 2007 (All India Rank-8).
- University Merit Scholarship 2003-07.

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Ten Best Research Papers along with NAAS Rating-2026

Sl. No	Publication	NAAS Rating
1.	Malav, L. C., Daripa, A. (correspong author), Chattaraj, S., Yadav, B., Jangir, A., Naitam, R. K., ... & Karak, T. (2025). Trace Elements in Untreated Wastewater in Central India: A Controversial Consideration for Irrigating Vegetables—To Employ or Not to Employ? LC Malav et al. Biological Trace Element Research, 203(12), 6353-6377.	9.60
2.	Chattaraj, S., Daripa, A. (correspong author), Reza, S. K., Ghosh, B. N., Majhi, S., Mallick, D., ... & Rahman, F. H. (2025). Soil texture and lithological discontinuity mapping for sustainable land use planning: An application of digital soil mapping in a part of Eastern Himalayan Foothills, India. Catena, 258, 109253.	11.70
3.	Chattaraj, A., Daripa, A. (correspong author), Chattaraj, S., Reza, S. K., Dey, S., Paul, S., ... & Rahman, F. H. (2025). Potential Soil Loss Estimation Using Machine Learning and Geospatial Technology in Part of the Eastern Plateau and Hill Region of West Bengal. Journal of the Indian Society of Remote Sensing, 53(10), 3317-3337.	8.20
4.	Daripa, A. , Chattaraj, S., Malav, L., Ray, P., Sharma, R., Mohekar, D. S., ... & Patil, N. G. (2023). Risk assessment of agricultural soils surrounding an iron ore mine: A field study from Western Ghat of Goa, India. Soil and Sediment Contamination: An International Journal, 32(5), 570-590.	7.9
5.	Daripa, A. , Chattaraj, S., Malav, L. C., Sharma, R., Naitam, R. K., Mohekar, D. S., & Ramamurthy, V. (2022). Land Use based distribution pattern, fractionation forms and health risk assessment of heavy metals in mining-affected soils of Western Ghat of Goa, India. Int J Plant Soil Sci, 34(23), 838-854.	3.43
6.	Daripa, A. , Bhatia, A., Ojha, S., Tomer, R., Chattaraj, S., Singh, K. P., Singh, S. D. (2016). Chemical and Natural Plant Extract in Ameliorating Negative Impact of Tropospheric Ozone on Wheat Crop: A Case Study in a Part of Semiarid North West India. Aerosol and Air Quality earch, 16 (7), 1742-1756.	9.06
7.	Daripa, A. Bhatia, A., Tomer, R. Singh, S. D. Jain N. and Pathak H.(2014).Nitrous oxide and carbon dioxide emission from maize (zea mays L.) under fertiliser application and elevated carbon dioxide in northwest India. Experimental Agriculture, 1(19 C). Cambridge UniversityPress.doi:10.1017/S0014479714000118.	8.12
8.	Reza, S. K., Chattaraj, S., Mukhopadhyay, S., Daripa, A. , Saha, S., & Ray, S. K. (2024). Delineation of high-resolution soil carbon management zones using digital soil mapping: A step towards mitigating climate change in the Northeastern Himalayas, India. Soil Use and Management, 40(1), e12995.	9.70
9.	Chattaraj, S., Srivastava, R., Barthwal, A. K., Giri, J. D., Mohekar, D. S., Obi Reddy, G. P., Daripa, A. , Chatterji, S. and Singh. S. K. Semi-automated object-based landform classification modelling in a part of the Deccan Plateau of central India. (2017).International Journal of Remote Sensing, 38:17, 4855-4867, DOI: 10.1080/01431161.2017.1333652.	9.15
10.	Das, B., Desai, S., Daripa, A. , Anand, G. C., Kumar, U., Khalkho, D., ... & Kumar, P. (2023). Land degradation vulnerability mapping in a west coast river basin of India using analytical hierarchy process combined machine learning models. Environmental Science and Pollution Research, 30(35), 83975-83990.	5.00

Total Publications (Peer-reviewed journals only):

International: 06 | National: 02

Google Scholar link: <https://scholar.google.com/citations?user=ZDNsDRUAAAAJ&hl=en&oi=ao>