

Ajoy Karmakar

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Education	Indian Institute of Remote Sensing, India	Aug 2023–June 2025
	<i>Master of Technology in Remote Sensing & GIS</i> <i>Specialization:</i> Forest Resources and Ecosystem Analysis <i>Dissertation:</i> Impact of Fire on Carbon Flux in North Western Himalaya Advisor: Dr. Taiabanganba Watham	
	Sidho-Kanho-Birsha University, WB, India	Aug 2021–June 2023
	<i>Master of Science in Environmental Science</i> <i>Specialization:</i> Remote Sensing <i>Dissertation:</i> Assessing the anthropogenic and Climate Change Drivers in Shaping Landscape Advisor: Dr. Tarakeshwar Senapati	
	Bankura Sammilani College, WB, India	Aug 2018– July 2021
	<i>Bachelor of Science in Zoology Programme</i> <i>Dissertation:</i> Waterbody Assessment using Water Quality Index and Zooplankton Diversity Advisor: Dr. Surajit Majumder	

Research Interests	Measurements and modeling of Carbon and Hydrological Flux: Tower mounted eddy covariance, time-frequency analysis of land-atmosphere interactions, Remote Sensing
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Reserach Experience	Junior Research Fellow	July 2025–present
	G. B. Pant National Institute of Himalayan Environment, India	
	<i>Project:</i> Carbon Budget and Eco-hydrological Dynamics of Selected Himalayan High-altitude Grasslands and Their Carrying Capacity PI & Advisor: Dr. Sandipan Mukherjee Conducting field campaigns, analyzing flux tower eddy covariance data, and contributing to land-atmosphere coupling research	
	• Maintaing Flux Tower	• Flux Tower Data Analysis
	Post Graduate Researcher	July 2024–June 2025
	Indian Institute of Remote Sensing, India	
	Conducted field visits, data collection, analyzed eddy covariance flux data	
	Research Intern	April 2023– June 2023
	CSIR - Central Mechanical Engineering Research Institute, India	
	Worked on Plastic Pyrolysis and Gas Chromatography.	

Skills	Programming	: Python, Bash, Julia
	Models	: CESM-CLM, CliMA Land, LUE
	Remote Sensing & GIS	: ERDAS Imagine, ENVI, 3D Forest, SNAP, ArcGIS, QGIS
	Software and Tools	: GEE (Python & JS), Linux, GrADS, CDO, LaTeX, MS Office
	Others	: Flux Tower Maintenance & Data Handling, Sap Flow Meter

Publications	Assessing the waterbodies through water quality index and zooplankton diversity for environmental sustainability of Bankura, West Bengal, India. 2024 Mahanty S, Saha D, Karmakar A, et al. AGBIR. 2024;40(2):1021-1029.
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Professional Experience	<div>Project InternFeb 2025– April, 2025</div> <div>Equatior Geo Pvt. Ltd., India</div> <div>Projects: the Race to Net Zero</div> <div>Contributed with Remote Sensing and GIS with the related project</div> <div><div>• Google Earth Engine</div><div>• Carbon & Other GHGs</div></div> <div>RS-GIS InternOct 2023– Dec 2023</div> <div>Stand For Forests Foundation, India</div> <div>Contributed with RS & GIS in Various Project</div>
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Achievements	Qualified Graduate Aptitude Test in Engineering (GATE)2024 & 2025
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