



**Dr. Neeraj Kumar Sharma**  
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**Jharkhand Space Applications Center**  
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Name: Dr. Neeraj Kumar Sharma  
 Present Position: Junior Scientist  
 Area of Specialization (Key words): Applications of RS and GIS in forest ecology and environment, water resources, agriculture, land use/ land cover analysis

**Employment History:**

Name of Employer	Period	Post
Regional Remote Sensing Service Centre, India Space Research Organization (ISRO), Dept. of Space, IIRS Campus, 4-Kalidas road, Dehradun	22 <sup>nd</sup> Sep 2000 -30 <sup>th</sup> Oct. 2002	Junior Research Fellow
Forest Survey of India, Ministry of Environment and Forest (MOEF) Kaulagarh Road, Dehradun	7 <sup>th</sup> Nov 2002 - 19 <sup>th</sup> June 2003	Technical Associate
Regional Remote Sensing Service Centre, India Space Research Organization (ISRO), Dept. of Space, IIRS Campus, 4-Kalidas road, Dehradun	20 <sup>th</sup> June 2003 -19 <sup>th</sup> June 2006	Senior Research Fellow
Jharkhand Space Applications Center, Dept. of IT and e-Gov, Govt. of Jharkhand, Ranchi	22 <sup>nd</sup> June 2006 - Till date	Junior Scientist

**Educational Qualification:**

Qualification	Board/University	Year	Main Subjects
Ph.D.	F.R.I. University Dehradun	2007	Forest Ecology and Environment
M.Sc.	F.R.I. University Dehradun	2000	Forestry and allied subjects
B.Sc.	C.C.S University, Meerut	1997	Botany, Zoology, Chemistry

**Projects completed at JSAC as PI/Co-PI:** Twenty four  
**Ongoing Projects:** Four

**Awards/Honors:**

- Qualified **National Eligibility Test (NET)** in forestry conducted by Agricultural Scientist Recruitment Board (ASRB) of Indian Council of Agricultural Research (ICAR) for eligibility as Lectureship/ Assistant Professorship
- Young Scientist Award -2006 by MSET, Ranchi, India.

**Membership of Professional Scientific Societies:**

- Life member of Indian Society of Remote Sensing, India
- Mountain Forum, International Centre for Integrated Mountain Development

**Course Coordinator:**

- Coordinated certificate three months certificate course Basics of Remote Sensing, Geographical Information System & Global Navigation Satellite System at JSAC
- Coordinated more than twenty Edusat based course conducted by Indian Institute of Remote Sensing, Dehradun
- Conducted State level workshops and training for Jharkhand State Govt. officials of different departments on “Applications of Geospatial Technology for

**Professional Training:**

Institute/Organization	From	To	Training Details
Forest Research Institute (FRI), Dehradun, Uttarakhand	4.02.2002	8.02.2002	Techniques of Biodiversity Conservation
Regional Remote Sensing Centre (ISRO/DOS), Dehradun	19.01.2004	30.01.2004	Remote Sensing and Geographical Information System
Orissa Remote Sensing Application Center, Bhubaneswar, Odisha	24.02.2007	26.02.2007	Orientation Programme on Vigyan Prasar EDUSAT network
National Institute of Disaster Management, New Delhi	08.10.2008	12.10.2008	Training of Trainer Programme on Applications of Geo-Information in Disaster Management
Jharkhand Space Applications Center, Ranchi	03.06.2008	05.06.2008	Fundamentals of ERDAS IMAGINE and Fundamentals of Leica Photogrammetry Suite
	03.07.2008	04.07.2008	Introduction to ARC SDE
	08.07.2008	10.07.2008	Remote Sensing and GIS using PCI Geomatica 10.1 software package
	07.05.2008	08.05.2008	ENVI IDL Remote Sensing and Image processing software package with Atmospheric correction module
	02.02.2011	07.02.2011	ERDAS Apollo 2010
	14.03.2012	15.03.2012	Regional Workshop (East) on LU/LC mapping-Second Cycle
	13.02.2012	29.03.2012	Edusat based Advance Course on Hyperspectral Remote Sensing
	11.02.2013	15.03.2013	Edusat based course on "Geoweb Services-Technology and Applications"
	17.10.2017	17.10.2017	Introduction to Arc GIS 10.5.1
	03.01.2018	05.01.2018	ArcGIS 2: Essential Workflows

**Research Publications:**

1. Sujimol M. R., Pandey Kamal, **Sharma N.K.**, Tiwari A.K. 2004. Evaluation of Resourcesat-1 AWiFS Data for Forest Classification: A case study of part of Doon Valley. NNRMS Bulletin.
2. **Sharma N. K.** 2005. Spatial Analysis of Disturbance Gradient in a Forested Landscape of an Indian Central Himalayan Watershed. Indian Forester. 131:1474-1482. **ISSN: 0019-4816**
3. **Sharma N.K.**, Tiwari A.K., Rawat G.S. 2007. Assessment of Diversity in Part of Kumaun Himalaya, Uttaranchal, Showing evidence of Pine Dominance. Indian Forester. 133(1 a):122-132. **ISSN: 0019-4816**

4. **Sharma N. K.**, Rawat G. S., Tiwari A. K. 2009. Measuring Pattern Diversity in a Watershed of Kumaun Himalayas, Nainital District, Uttarakhand. *Indian Forester*. 135(1):17-27. **ISSN: 0019-4816**
5. Bijalwan Arvind, Swamy S. L., Sharma Chandra Mohan, **Sharma Neeraj Kumar**, Tiwari A. K. 2010. Land-use, biomass and carbon estimation in dry tropical forest of Chhattisgarh region in India using satellite remote sensing and GIS. *Journal of Forestry Research* 21(2):161-170. **ISSN: 1007-662X**
6. **Sharma N. K.**, Lamay J. B., Kullu N. J., Singh R. K., Jeyaseelan A. T. 2012. Land Use and Land Cover Analysis of Jharkhand Using Satellite Remote Sensing. *Research & Reviews: Journal of Space Science & Technology*. 1(2):1-10. **ISSN:2321-2837**
7. Sharma Richa, Chaudhry S., Kudrat M., Tiwari A. K., **Sharma N. K.**, Sharma S. 2012. Vegetation types and their relationship with different topographic variables in the Kumaun Himalayan region. *International Journal of Ecology and Development*. 23(3):60-79. **ISSN:0972-9984**
8. **Sharma N. K.**, Jeyaseelan A. T., Kumar Ravish. 2012. Geospatial Technology for Sericulture Development in Jharkhand: A Pilot Study. *Journal of Remote Sensing and GIS*. 3(2):34-45. **ISSN:2230-7990**
9. **Sharma N. K.**, Kullu N. J., Swain P. K., Jeyaseelan A. T. 2012. Geospatial Analysis of Wetlands in Jharkhand Using Multi-temporal Satellite Data. *Journal of Remote Sensing and GIS*. 3(3):22-30. **ISSN:2230-7990**
10. Sharma Richa Tripathi, Rawat Y.S., Tiwari A.K., **Sharma N.K.**. 2013. Geospatial Analysis of Biomass in Lake Region of Kumaun Himalaya, Uttarakhand. *Research & Reviews: Journal of Space Science & Technology*. 2(3):1-12. **ISSN:2321-2837**
11. **Sharma N.K.**, Sharma Richa Tripathi. 2014. Conservation Prioritization using Multi-criteria Decision Model: A Case Study in Part of Western Himalayan Ecoregion. 2014. *Journal of Remote Sensing & GIS*. 5(1):16-26. **ISSN:2230-7990**
12. **Sharma N.K.**, Rawat G.S. 2014. Vegetation Analysis with Reference to Topographic Variables using Remote Sensing Data. *Research & Reviews: Journal of Ecology*. 3(1):31-40. **ISSN: 2278-2230**
13. Sharma Richa Tripathi, Chaudhry S., Kudrat M., **Sharma N.K.** 2014. Phytosociological Analysis in Kumaun Himalaya using Satellite Remote Sensing with Special Reference to Woody Vegetation. *Research & Reviews: Journal of Ecology*. 3(1):20-30. **ISSN: 2278-2230**
14. **Sharma N.K.**, Tiwari A.K.. 2014. Vegetation analysis in Kumaun Himalaya using remote sensing. *Research and Reviews: Journal of Space Science and Technology*. 3 (1):9-16 **ISSN:2321-2837**
15. **Sharma N.K.**, Sharma Richa Tripathi. 2014. Phytosociological analysis in a part of Western Himalayan Ecoregion using Satellite Remote Sensing. *Research and Reviews: Journal of Botany*. 3(1): 10-19 **ISSN: 2278-2222**
16. **Sharma N.K.** 2014. Analysis of plant uses in Kalsa Watershed, Western Himalayan Ecoregion, India. *Research and Reviews: Journal of Ecology*. 3(1): 1-9 **ISSN: 2278-2230**
17. **Sharma N.K.** 2015. Landscape Characterization in a Watershed of Western Himalayan Ecoregion. *Journal of Remote Sensing & GIS*. 6(1):1-10. **ISSN:2230-7990**
18. **Sharma Neeraj Kumar**, Kullu Nishi Jaya, Anshula Kumari. 2020. Spatiotemporal Analysis of Water bodies in Ranchi district, Jharkhand using satellite data: an input for Jal Shakti Abhiyan. *Journal of Remote Sensing & GIS*. 11(1): 27–35. **ISSN:2230-7990**
19. Sharma Richa, Chaudhry Smita, **Sharma Neeraj Kumar**. 2020. Litterfall Dynamics in different Forest Types of Kumaun Himalaya. *Research & Reviews: Journal of Ecology*. 2020; 9 (1): 23–30. **ISSN: 2278-2230**
20. Sharma Richa, Chaudhry Smita, **Sharma Neeraj Kumar**. 2020. Forest Biomass and Carbon Stock estimation in Kumaun Himalaya using Geospatial Approach. *Indian Forester*. 146 (4):277-286. DOI: 10.36808/if/2020/v146i4/148449. **ISSN: 0019-4816**