

Sandhya Farswan

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Jawaharlal Nehru University,

New Delhi – 110 067, India

Area of Interest Remote Sensing, Geospatial Science, GIS, Sustainable Environment, Climate Change

University Studies

- 2009 - 2012** **M.Sc. (Remote Sensing & GIS Applications)**
from Department of Remote Sensing & GIS Applications, School of Earth Sciences,
Hemwati Nandan Bahuguna Garhwal University, Srinagar Garhwal, Uttarakhand, India
- 2006 - 2009** **B.Sc. (Zoology, Botany & Chemistry)** from Faculty of Sciences, Birla Campus,
Hemwati Nandan Bahuguna Garhwal University, Srinagar Garhwal, Uttarakhand, India

Internship / Dissertation

- June 2011 – July 2011** Summer training (2 months): from **Oil and Natural Gas Corporation Ltd. (ONGC)**
at KDMIPE Campus, Remote Sensing & Geomatics division, Dehradun, India. Digital Image
Processing of Landsat (ETM+) imagery, Land use land Cover mapping and Change Detection
process learned.
- September 2011 – October 2011** M.Sc. Dissertation (**Remote Sensing & GIS Applications**)
Worked on the project of Space Based Information Support for Decentralized Planning
(SIS-DP) at IIRS Campus, Regional Remote Sensing Centre - North, NRSC, Dept. of Space,
ISRO, Dehradun Uttarakhand entitled thesis: **'DEM Generation Using Satellite Stereo Data
for a part of Patna District, Bihar'**

Research Work Experience

- July 2015 – till date** **Information Officer** at School of Environmental Sciences, Jawaharlal Nehru University.
Working for the national program: 'ENVIS (Environmental Information System) on 'Geodiversity
& Impact on Environment' funded by the Ministry of Environment, Forest & Climate Change
(MoEF&CC), Govt. of India.
- January 2014 – April 2014** **Research Assistant** at Center for the Study of Regional Development, Jawaharlal Nehru
University. Worked for the project funded by the Indian Council of Social Science Research
(ICSSR) on: 'Socio-Economic factors affecting land degradation & its impact on sustainable rural
development: A case study of Chambal region, India'
- July 2012 – July 2013** **Junior Research Fellow** at Center for the Study of Regional Development (CSRD),
Jawaharlal Nehru University. Worked for the project funded by Digital Terrain modeling Research
Laboratory (DTRL), Defence Research and Development Organization (DRDO), Ministry of
Defence on: 'Scale variant Geo-spatial Feature Mapping using Spatio-Temporal data In and
Around Parvati Basin, Himachal Pradesh'
- February 2012 – June 2012** **Training Coordinator – GIS & DRR.** Worked for Community Managed Disaster Risk
Reduction (CMDRR) and Watershed Management project in the remote villages of the Garhwal
Himalayas, Uttarakhand at the NGO based on conservation through enterprise: 'Appropriate
Technology India', Guptkashi, Uttarakhand.

Workshop / Technical Training

2022	‘Producing Climate Information for National Adaptation Planning’ on July 12, 2022: Successfully completed training e-course on Integrating Climate Risk Information into NAPs by the United Nations Institute for Training and Research (UNITAR) & the World Meteorological Organization (WMO).
2022	‘Geospatial Information Technology (GIT) in Fragile Contexts’ on July 05, 2022: Successfully completed the course by the Operational Satellite Applications Programme (UNOSAT) of the UNITAR funded by the European Space Agency.
2019	Workshop on ‘Machine Learning and Big Data Analytics- Application to Remote Sensing’ from August 19 - 20, 2019 at Sikkim University, India.
2019	Global Symposium on ‘Artificial Intelligence in Governance and Disaster Management’ from March 11 - 13, 2019 at Special Centre for Disaster Research, Jawaharlal Nehru University.
2018	‘Google Earth Engine Technical Workshop’ on February 23, 2018, by Google India at School of Environmental Sciences, Jawaharlal Nehru University.
2016	GIAN (Global Initiative on Academic Network) course on: ‘Glaciers and Water Resource Management’ from July 25 – 31, 2016 by Ministry of Human Resource & Development (MHRD) at School of Environmental Sciences, Jawaharlal Nehru University
2014	Poster presented at Tropical Ecology Congress (TEC-2014) : ‘Tropical Ecosystems in a Changing World’ from December 10 -12, 2014 on ‘Comparative Analysis of Classification Algorithm..’ at School of Environmental Sciences, Jawaharlal Nehru University.
2006 - 2008	ADSE (Advance Diploma in Software Engineering) from APTECH Computer education.

Publications

2019	Sandhya Farswan , Vishwakarma, C.A., Mina, U., Kumar, V., Mukherjee, S. (2019) ‘Assessment of rainwater harvesting sites in a part of North- West Delhi, India using Geomatic tools’. <i>Environmental Earth Sciences</i> , 78:329. DOI: 10.1007/s12665-019-8332-y.
2019	Singh, S., Sandhya Farswan , Meena, R., Ramanathan, AL. (2019) Landfill: Solution or a Bigger Problem to the Environment. ENVIS: <i>Geodiversity & Impact on Environment</i> , Vol-24 (2), 2019 (ISSN: 0974-1364).
2018	Singh, S., Sandhya Farswan , Mina, U., Ramanathan, AL. (2018) An Indian Perspective of Reducing Emission from Deforestation and Forest Degradation (REDD+). ENVIS: <i>Geodiversity & Impact on Environment</i> , Vol-23 (3), 2018 (ISSN: 0974-1364).
2017	Singh, S., Sandhya Farswan , Mina, U., Ramanathan, AL. (2017) Waste and Waste Management in India. ENVIS: <i>Geodiversity & Impact on Environment</i> , Vol-22 (4), 2017 (ISSN: 0974-1364).
2016	Kumar, M., Ramanathan, AL., Tripathi, R., Sandhya Farswan , Kumar, D., Bhattacharya, P. (2016) A study of trace element contamination using multivariate statistical techniques and health risk assessment in groundwater of Chhaprola Industrial Area, Gautama Buddha Nagar, Uttar Pradesh, India. <i>Chemosphere</i> . 166:135-145. DOI 10.1016/j.chemosphere.2016.09.086.

Skills

Software	ArcGIS/INFO 2010, ArcSWAT, ERDAS Imagine 2011, ENVI, SNAP/ESA, LPS manager 2011, Google Earth Engine, R Studio, R-Gui (beginner)
Hobby	Badminton, Trekking, Creative Design, Music & Dance