

Dr. Atri Shaw

Senior Remote Sensing & Environment Specialist

Qualifications: Ph. D (Environment Management)

About Atri

Dr. Atri has 11 year experience and is responsible for applying Geospatial Technology in analyzing the ecological aspects. Atri owns expertise on application of remote sensing with the purpose of eco-based natural resource management and climate change related projects. Some examples are assessing the spatial and temporal land cover changes, forest cover and forest type modeling PAN India.

Apart from that Atri also supports collection of various primary and secondary ecological data that facilitate preparation of geospatial layers which have potential to reveal critical ecological and anthropogenic drivers stemming from deforestation and land degradation in India. Other areas of her expertise are reconnaissance surveys at the project sites for monitoring and evaluation of changes; assessing the vulnerability of the area of interest for project planning, implementation and monitoring; RS and GIS training to various state forest departments and universities across India.

At Geovale, she has been supporting all the teams with terrain modelling along with morphometric analysis and land use land cover change dynamics. She is also involved in Mapping & Stock Estimation of Farm Forestry Plantation in the selected districts at Odisha and Andhra Pradesh for JK paper Limited.

Relevant Experience

- **USAID sponsored Forest-PLUS, IORA Ecological Solutions Pvt. Ltd.:** Digital image processing and digital interpretation of satellite data for all the landscapes. Analyzing the remote sensing data to ascertain land cover details, forest cover, forest type, land use land cover change matrix. Assisting in reconnaissance survey of field to have knowledge of ground reality. Working with very high resolution dataset for developing inventory of forest & biomass estimation for project areas.
- **Training and Capacity Building, Forest-PLUS:** Has been actively involved in not only applying the latest geospatial technologies in assessment and monitoring of the natural resources but also has been involved in building the capacity and training the respective departments in managing the resources sustainably. She has share their expertise with the technicians of the respective departments and trained them in using specific softwares.
- **Foundation for Ecological Security:** Preparation of land use and land cover maps for assessing the management of the watersheds in all the landscapes of FES. She also been involved in analyzing the river morphometry of the region to help her team analyze the watersheds at village level. Preparation of Geo-data base and developing block and taluk level Atlas.
- **ITTO sponsored Operational Strategy for Sustainable Forestry Development with Community Participation in India, IIFM::** She has been engaged for developing site specific C&I for SFM/SFD in the different categories of FMUs (based on vegetational, functional, and legal/ownership classification), within an overall umbrella of national level C&I.
- **National Forest Type Mapping project, Forest Survey of India:** On-screen visual and digital interpretation of LISS III data. Preparation of land use and land cover map using LISS III and SRTM data. Ecological assessment prior to final mapping for Biodiversity Characterization at landscape level was done. Ground truthing and field data collection with the aim of preparation of various layers using of geo-

Period		Position	Organization
2018	Present	Senior Remote Sensing & Environment Specialist	Geovale Services
2014	2018	Manager, RS & GIS	IORA Ecological Solutions Pvt. Ltd.
2012	2014	Senior Project Officer	Foundation for Ecological Security
2008	2012	Research Fellow	Indian Institute of Forest Management
2008	2008	Research Scholar	Indian Institute of Technology, Kharagpur
2007	2008	Technical Associate	Forest Survey of India