

## **Pawan K Joshi** *PhD*

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Prior to joining the *Jawaharlal Nehru University*, he was with *TERI University* for eight years and before that with *Indian Institute of Remote Sensing (IIRS)* of Indian Space Research Organisation (ISRO) for around a decade. During serving IIRS/ISRO, he was also adjunct faculty to the *Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP)*, an UN affiliated institution. He was visiting teaching faculty to *University of Helsinki*, Finland (Spring 2009), *Yale School of Forestry and Environmental Studies (YSF&ES)*, USA (Spring 2011) and *University of Freiburg*, Germany (October 2011-14). He is trained as an environmentalist with specialization in satellite remote sensing & GIS science.

He was a key team member in transforming IIRS/ISRO, a mid-career professional training institute to academic institution. He played important role while introducing MTech (RS&GIS), MSc (Geohazards) and MSc (Geoinformatics). At the TERI University, he played key role in introducing MSc (Geoinformatics) and enhanced research in applications of RS&GIS. He was also instrumental in introducing MSc (Climate Science and Policy) and consolidating MSc (Environmental Studies and Resource Management). In both the institutions he immensely contributed to research activities and funded projects.

His research focuses on environmental studies including landscape characterization and climate change. He has immensely contributed in ISRO-GBP programme: SWG on LULC Dynamics and Ecosystem Studies, Tropical Ecosystem Environment Observations by Satellite (TREES I & II), GLC-2000, DOS-DBT initiative on Biodiversity Characterization at Landscape Level, National Natural Resource Census of ISRO {IRS P6 AWiFS (1:250K) & LISS III/IV (1:50K)} among others. Many of the products of these are hosted in Bhuvan and other portals. He has also contributed to Ecosystem Services and Poverty Alleviation - Strategic Situation Analysis (ESPA-SSA) while working for India-Hindukush Region and Justice in ecosystem management. He has participated in NASA, DST, MoEFCC, Erasmus+ and other funded projects. His other interests are ecosystem dynamics in climate change scenarios, assessment of AR-CDM, REDD+, renewable energy and application of RS&GIS in these frontier areas.

His research contributions are recognized by the *Indian National Science Academy (INSA, 2006)* and the *National Academy of Sciences India (NASI, 2009)* through the award of their highly prestigious Young Scientist Medal and many others of similar kind. Other recognitions to his credit are *P.R. Pisharoty Memorial Award (Indian National Remote Sensing Award) (2014)* and *Platinum Jubilee Lecture, 105<sup>th</sup> Indian Science Congress (2018, Environmental Sciences section)*. He has consistently published in peer-reviewed journals, written monographs/books and is regularly invited to give talks in conferences of related fields. He is on the Editorial Board of International Journals and regularly reviews research manuscripts.

He has experience of successful supervision and evaluation of graduate research students at PhD and masters levels worldwide. Apart from teaching at universities of Helsinki, Yale and Freiburg; he was visiting scientist at the Wageningen Agriculture University (WAU) and International Institute for Geo-Information Science and Earth Observation (ITC), The Netherlands (in 2002) and University of Technology, Sydney (2018). At the SES/JNU, he teaches courses related to ecology, landscape analysis and geoinformatics (RS&GIS) at masters' and PhD levels.

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### **Work Experience**

- *Head & Professor, Department of Natural Resources, TERI University, New Delhi (2007-2015)*
- *Scientist, Forestry & Ecology Division, Indian Institute of Remote Sensing (IIRS/ISRO), Dehradun (2000-2007)*
- *Adjunct Faculty, Center for Space Science and Technology Education in Asia and the Pacific (Affiliated to the UN), Dehradun (2000-2007)*
- *Research Fellow, Forestry & Ecology Division, IIRS/ISRO, Dehradun (1998-2000)*

### **Awards & Achievements**

- *Fellow National Academy of Agricultural Sciences (FNAAS) (2019)*
- *KTP Visiting Fellow – to visiting University of Sydney (2018)*
- *Fellow Indian Geophysical Union (FIGU) (2018)*
- *Platinum Jubilee Lecture (2018) Environmental Sciences, 105<sup>th</sup> Indian Science Congress*
- *P.R. Pisharoty Memorial Award (2014), Indian Society of Remote Sensing (ISRS/ISRO)*
- *Member Global Young Academy (GYA), (2012)*
- *Young Scientist Platinum Jubilee Award (2009), National Academy of Sciences India (NASI)*
- *Academy Gold Medal (2006), Indian Academy of Environmental Science (IAES)*
- *Young Scientist Medal (2006), Indian National Science Academy (INSA)*
- *Fellow - Indian Academy of Environmental Sciences (FIAES) (2004)*
- *Fellowship to visit Wageningen Agriculture University (WAU) and International Institute for Geo-Information Science and Earth Observation (ITC), The Netherlands (2002)*
- *ISRO-GBP fellowship for doctoral research at IIRS/ISRO, (1998 - 2000)*

### **Research**

<i>Publications</i>		<i>Supervision</i>	
Peer-reviewed Journals	170 <sup>(5)</sup>	PhD	15 <sup>(8)</sup>
Seminars/Conferences	65	MTech	13
Book Chapters	26	MPhil	02
Books/Monographs	07	MSc	56 <sup>(01)</sup>
General Articles	25	PGDip/others	15

### **Assignments (Teaching) Abroad**

1. *Visiting Fellow - University of Technology, Sydney (August 2018)*
2. *Visiting Faculty - University of Freiburg (October 2011-2014)*
3. *Visiting Faculty - Yale School of Forestry and Environmental Studies (Spring Semester 2011)*
4. *Visiting Professor - University of Helsinki (Spring Semester 2009)*
5. *Deputation - Wageningen Agriculture University (2002)*
6. *Deputation - International Institute for Geo-Information Science & Earth Observation (ITC) (2002)*