

Dr Prashant Sharma

Assistant Professor

Specialization: Agroforestry, Remote sensing, Weed management

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Ongoing Research Projects

- All India Coordinated Research Project (AICRP) on Agroforestry, ICAR (Co-PI).
- Techniques for protecting infrastructure, forest plantation and utilization of pine needles funded by Govt. of Himachal Pradesh under Research and Development Fund Scheme (Co-PI).
- Evaluating the performance of seaweed extract, protein hydrolysates, biochemical and botanical extract in crop growth, CAFRI, Jhansi (Co-PI).

Important Research Publications

- **Sharma P**, Singh MK, Verma, K, Prasad, SK. 2022. Soil weed seedbank under different cropping systems of middle Indo-Gangetic Plains. *Plant, Soil and Environment* **68**:542-551.
- Navale MR, Bhardwaj DR, Bishist R, Thakur CL, Sharma S, **Sharma P***, Kumar D, Probo M. 2022. Seasonal variations in the nutritive value of fifteen multipurpose fodder tree species: A case study of north-western Himalayan mid-hills. *PloS One* **7**(10): e0276689.
- Kumar D, Thakur CL, Bhardwaj DR, Sharma N, **Sharma P** and Sankhyan N. 2022. Biodiversity conservation and carbon storage of *Acacia catechu* Willd. dominated northern tropical dry deciduous forest ecosystem in north-western Himalaya: Implications of different forest management regimes. *Frontiers in Environmental Science* **10**. <https://doi.org/10.3389/fenvs.2022.981608>.
- Panwar P, Mahalingappa DG, Kaushal R, Bhardwaj DR, Chakravarty S, Shukla G, ... **Sharma P**,... and Gurung T. 2022. Biomass production and carbon sequestration potential of different agroforestry systems in India: A Critical Review. *Forests* **13**(8):1274.
- Kumar D, Bhardwaj DR, **Sharma P**, Sankhyan N, Al-Ansari N, Linh NT. 2022. Population Dynamics of *Juniperus macropoda* Bossier forest ecosystem in relation to soil physico-chemical characteristics in the cold desert of North-Western Himalaya. *Forests* **13**(10):1624.
- **Sharma P**, Bhardwaj DR, Singh MK, Nigam R, Pala NA, Kumar A, Verma K, Kumar D and Thakur P. 2022. Geospatial technology in agroforestry: status, prospects, and constraints. *Environmental Science and Pollution Research*. <https://doi.org/10.1007/s11356-022-20305-y>.
- Bhardwaj DR, Kumar A, Pala NA, **Sharma P***, Kumar D, Kumar A and Zahoor S. 2022. Carbon density and C-sequestration by tree plantation ecosystems in mid-hill of NW-Himalayas: Implications for climate change mitigation. *Land Degradation & Development* **33**(12):2115-2126.
- Bhardwaj DR, Tahiry H, **Sharma P**, Pala NA, Kumar D and Kumar A. 2021. Influence of Aspect and Elevational Gradient on Vegetation Pattern, Tree Characteristics and Ecosystem Carbon Density in Northwestern Himalayas. *Land* **10**(11):1109.
- Garima, Bhardwaj DR, Thakur CL, Kaushal R, **Sharma P**, Kumar D and Kumari Y. 2021. Bamboo-based agroforestry system effects on soil fertility: Ginger performance in the bamboo subcanopy in the Himalayas (India). *Agronomy Journal* **113**(3):2832-2845.
- **Sharma P**, Singh MK, Verma K and Prasad SK. 2020. Changes in the weed seed bank in long-term establishment methods trials under rice-wheat cropping system. *Agronomy*

Awards & Recognitions

- Travel Grant conferred to attend 5th World Congress on Agroforestry held at Quebec City, Canada from July 17-20, 2022
- DST-INSPIRE fellowship awarded by the Department of Science and Technology (DST) for the PhD program w.e.f. 2018-2022.
- Young Fellow Award-2019 conferred by Agricultural Technology Development Society on the occasion of 3rd International Conference on Global Initiatives in Agricultural and applied Sciences for Eco Friendly Environment”, Nepal, held on June 16-18, 2019.
- Gold medallist Award conferred by Banaras Hindu University for excellence in M.Sc. (Ag) Agroforestry program during 2018.
- Third Best Poster Award conferred by The Indian Society of Weed Science in “50th ISWS Golden Jubilee International conference- Weed and Society: Challenges and Opportunities” during November 21-24, 2018.
- Best Oral Presentation Award conferred by Academy of Environment and Life Sciences in “National Conference on Promoting & Reinvigorating Agri-horti, technological innovations - PRAGATI-2017”, at Dhanbad, Jharkhand during November 11-12, 2017.
- Certificate of the merit conferred for B.Sc. (honrs) Forestry form Dr YS Parmar UHF, Nauni, Solan during 2016.
- President of the Central Student Association of the Dr. YS Parmar UHF, Nauni, Solan for a period of one-year w.e.f. 2015-2016.