**Resume**

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**Prof. VIKAS SHARMA, Ph.D.**

Head, Division of Soil Science and Agricultural Chemistry

Faculty of Agriculture,

Sher-E-Kashmir University of Agricultural Sciences and Technology-Jammu,

Chattha, Jammu 180 009,Jammu and Kashmir, INDIA

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**Research Interests:** Digital Soil Mapping, Soil Carbon, Soil Conservation and Soil Health

**SUMMARY**

* Research experience in spatial distribution of soil properties, Digital soil mapping, soilconservation, soil carbon, remote sensing and GIS, Organic sources of nutrients and Organic farming, N management in cropping systems.
* Present grants include development of soil and land information system, digital soil mapping using ML models and soil carbon modelling.
* Administrative Experience as Head of Organic Farming Centre and Head of Division of Soil Science; Coordinator for Faculty of Agriculture, University Examination Cell. 2012-2022; Member of various Statutory, Research and Academic bodies.
* Teaching and Research Experience of more than 22 years, Advising PhD and MSc students.
* Visiting Professor, Auburn University, AL, USA; Visiting Scholar, West Virginia University, WV, USA;

**EDUCATION**

* **Post-doctorate** under the Raman Fellowship of the UGC, West Virginia University, WV, USA.
* **Ph.D. Soil Science**, Punjab Agricultural University, Ludhiana, India.
* **M.Sc. (Agri) Soil Science,** University of Agricultural Sciences, Bangalore, India.
* **B.Sc. Agriculture,** University of Agricultural Sciences, Bangalore, India.

Major: Soil Science

**PROJECTS/GRANTS**

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| * Development of J&K Soil and Land Resource Information System (JKSLRI). * Modelling the effects of landuse changes on soil organic carbon dynamics using geospatial technology (2020 - ), SERB. * Strengthening Institutional Capacities for Delivering Competent Skilled Professionals (Institutional Development Plan of SKUAST-Jammu). NAHEP, ICAR. |
| * Soil Erosion Risk Mitigation and Carbon Sequestration Potential of Climate Resilient Agriculture Practices in Foothill Shivaliks , NICRA-ICAR. (recently concluded) |

***SelectedResearch Articles***

**Sharma V.**, Hussain, S., Sharma, K.R., Arya, V.M., 2014. Labile carbon pools and soil organic carbon stocks in the foothill Himalayas under different land use systems. *Geoderma* 232–234, 81–87.

Sharma D, **Sharma V**, Buttar TS, Sharma A, Arya VM. 2023. Edge-of-field monitoring to assess the effectiveness of conservation practices in the reduction of carbon losses from the foothills of the Himalayas. CATENA 225: 107030. DOI: 10.1016/j.catena.2023.107030.

Wani, O.A., **Sharma, V.,** Kumar, S.S., et al. 2023. Climate plays a dominant role over land management in governing soil carbon dynamics in North Western Himalayas. Journal of Environmental Management, 338, 117740.

Hussain, S., **Sharma, V.,** Arya, V.M., Sharma, K.R. & Rao, S. 2019. Total organic and inorganic carbon in soils under different land use/land cover systems in the foothill Himalayas. *CATENA*, **182**, 104104.

Arora S, Bhatt R, **Sharma V**, Hadda MS. 2022. Indigenous Practices of Soil and Water Conservation for Sustainable Hill Agriculture and Improving Livelihood Security. *Environmental Management*. DOI: 10.1007/s00267-022-01602-1

Kumar, S., Ali Wani, O., Mir, S., Babu, S., **Sharma, V**., Chesti, M.U., Baba, Z., Sofi, P., Yadav, D., 2022. Soil carbon dynamics in the temperate Himalayas: Impact of land use management. *Frontiers in Environmental Science*.

Sharma P, Abrol V, **Sharma V**, Chaddha S, Srinivasa Rao Ch, Ganie AQ, Ingo Hefft D, El-Sheikh MA, Mansoor S. 2021. Effectiveness of biochar and compost on improving soil hydro-physical properties, crop yield and monetary returns in Inceptisol subtropics. *Saudi Journal of Biological Sciences*. DOI: 10.1016/j.sjbs.2021.09.043.

**Sharma, V.,** Mir, S.H., & Sharma, A. 2016. Nitrogen Mineralization as Influenced by Different Organic Manures in an Inceptisol in the Foothill Himalayas.Communications in Soil Science and Plant Analysis. 47, 194–202

**Sharma, V.**and Sharma, K.N., 2013. Influence of Accompanying Anions on Potassium Retention and Leaching in Potato Growing Alluvial Soils. *Pedosphere* 23, 464–471.

**Sharma, V**., Arya, V.M. & Sharma, K.R. 2017. Spatial variability of soil pH and electrical conductivity in the Jammu district of Jammu and Kashmir. *Journal of Soil and Water Conservation*, 16, 320-324.