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Title	Dr.	First Name	PANKAJ	Last Name	KUMAR	Photograph
Designation		Associate Professor				
Address		Department of Geography, Delhi School of Economics, University of Delhi, Delhi -110007, India.				
Phone No	Office	+91-11-27666491				
Residence		+91-9013799488				
Mobile		+91-9599300424				
Email		pankajdsedu@gmail.com pkumar@geography.du.ac.in				
• Educational Qualifications						
Degree	Institution				Year	
Ph. D.	Department of Geography, Delhi School of Economics, University of Delhi, India				2014	
M.Phil.	Department of Geography, Delhi School of Economics, University of Delhi				2007	
P.G.	Department of Geography, Delhi School of Economics, University of Delhi				2004	
U.G. (Honours)	Dyal Singh College, University of Delhi				2001	
Any Other Qualification	University Grants Commission –National Eligibility Test				2005	
• Career Profile						
Organisation/Institution		Designation		Duration		
Department of Geography, Delhi School of Economics, University of Delhi.		Associate Professor		12/08/2021 to till date		
Department of Geography, Delhi School of Economics, University of Delhi.		Assistant Professor		21/02/2014 –11/08/2021		
Department of Geography, Shaheed Bhagat Singh College, University of Delhi.		Assistant Professor		27/03/2009 –20/02/2014		
1. ADMINISTRATIVE ASSIGNMENTS						
<ul style="list-style-type: none"> Assistant Secretary General & Website Node, International Geographical Union (2020-2022). 						

- IGU Liaison to ISC Committee on Data for Science and Technology (CODATA) (2021-2022).
- Secretary, Commission on Mountain Studies, International Geographical Union (2020-2024).
- Treasurer, The Association for Geographical Studies, Delhi, India (2018).
- Secretary, Commission on Biogeography and Biodiversity, IGU (2016-2020).
- Member of “SC/ST and OBC admission enabling Committee” of Shaheed Bhagat Singh College, University of Delhi for the year 2012-13.
- Performed task of “Convener-OBC Certificate verification” during annual admission for the year 2009-10 and 2010-11 in Shaheed Bhagat Singh College, University of Delhi.
- Chief Editor of magazine “Landscape” published by Student Association,
- Department of Geography, Shaheed Bhagat Singh College for the year 2011-12, 2012-13 and 2013-14.
- Executive Member of North Zone, National Association of Geographer’s India (NAGI).

2. AREAS OF INTEREST / SPECIALIZATION

- Environment Geography, High Mountain Ecosystem, Watershed Study, Regional Development, Urban Landscape Dynamics, Remote Sensing and GIS

3. SUBJECTS TAUGHT

- **Summer Semester:** M. A Semester I & M. A Semester III: GEOG3E13: Regional Development in India M.Phil/PhD Course III: Regional Development (Specialization Course), Course IV: Research Publication & Ethics
- **Winter Semester:** M. A Semester II & M. A Semester IV: Course: GEOG2C03 Remote Sensing and Geographical Information System; Course GEOG2E04: Geography of Cryosphere; Course: GEOG4E11: Integrated Watershed Management, Course 401 Project Work

4. RESEARCH GUIDANCE

➤ **Supervision of Doctoral Theses: Awarded**

- Md. Arif Husain, (Ref: No. BRS (Soc.Sc)/2017/956 dated 28-09-2017) with PhD title “Geospatial Study of Snow Cover Dynamics in Lahaul and Spiti District, Himachal Pradesh”.
- Mr. Shailendra Pratap, (Ref: No. BRS (Soc.Sc)/2022/93227 dated 14-06-2011) with PhD title “.....”.
- Ms. Shipra Singh, (Ref.No. BRS (Soc.Sc.)/2018/3228) dated 05-11-2018 with PhD title “Impact of Land use and Climate Change on Water Resource Sustainability in Sundargarh Watershed”.
- Ms. Rashmi (Ref: No. BRS (Soc.Sc)/2015/169) dated 10-04-2015 with PhD title Land use planning and livelihood options in the flood affected region of Saran plain.
- Md. Senaul Haque (Ref. No. BRS(Soc. Sc)/2015/1410 dated 02.11.2015) title “Environment, Exposure and Diseases: An Epidemiologic Assessment of Urban Health in Kolkata.

➤ **Supervision of Doctoral Theses: Ongoing**

- Mr. Rajesh Sarda, (Ref.No. BRS (Soc.Sc.)/2023/471) dated 20-10-2023 with PhD title "Wetland Ecosystem Health and Serviceability: A case study of the Ramsar Site in Himachal Himalaya".
- Ms. Deepali Gupta (Ref.No. BRS (Soc.Sc.)/2023/679) dated 11-11-2023 with PhD title "Avalanche hazard and risk assessment using Artificial Intelligence and its Impact on Local communities of Lahaul and Spiti, Himachal Himalaya".
- Mr. Ankur Yadav, (Ref.No. BRS (Soc.Sc.)/2023/3765) dated 30-01-2023 with Tentative PhD title "Indian summer monsoon rainfall interseasonal variability and its impacts on kharif crops in hot and arid agro-ecological region of North West India".
- Mr. Udbhaw Sandilya (Ref.No. BRS (Soc.Sc.)/2023/3768) dated 30-01-2023 with Tentative PhD title "Assessment of the dynamism of snow and glaciers on the ecosystem services of the Parvati valley, Kullu District, Himachal Pradesh".
- Mr. Ashwani, (Ref.No. BRS (Soc.Sc.)/2022/2526) dated 14-01-2022 with PhD title "Assessing the impact of Climate Change on Agricultural Vulnerability in Lahaul and Spiti, Himachal Pradesh".
- Mr. Pushalal Ganesh (Ref.No. BRS (Soc.Sc.)/2022/2535) on title "Analysis of Agriculture and its Commercial Potentiality in the Mahananda river basin of Kishanganj district, Bihar".
- Mr. Abhinav Rai, (Ref.No. BRS (Soc.Sc.)/2021/1953) dated 12-10-2021 with PhD title "Monitoring Glacier and Runoff Regime Change of Chandra River Basin, Lahaul and Spiti, Himachal Pradesh".
- Mr. Anish Kumar Rai, (Ref.No. BRS (Soc.Sc.)/2019/1393) dated 03-03-2020 with PhD title "Spatio-Temporal Assessment of Urban Heat Island and its Implications in Kaval Cities, U.P (India)".

➤ **Supervision of M. Phil Dissertation (Awarded):**

- 2024: Forest fire hazards and vulnerability mapping: A case study of Almora District, Uttarakhand – Aditya Kumar
- 2021: Vulnerability of Tribal Communities to Climate Variability: Lahaul and Spiti, Himachal Pradesh, India: Ashwani
- 2019: Spatio-temporal Assessment of Urban Heat Island and Its Implications in Lucknow City : Anish Kumar Rai
- 2019: Assessment of Impact of Climate Variability and Landuse/ Landcover Change on Water Availability in Dhansiri Watershed : Narayani Gogoi
- 2018: Land use Planning and Feasibility Analysis of Kalyan Dombivli Smart City, Maharashtra :Astha Smarth Kapur
- 2018: Assessment of Ecosystem Services in Luni River Basin: Jyoti Bohara
- 2018: Spatio-temporal Distribution of Air Pollution and its Impact on Environment of Barddhaman District: Saidur Rahman
- 2017: Snow Cover Dynamics and Hydrological Responses : A Case Study of Spiti Valley : Md. Arif Husain
- 2017: Integrated Coastal Zone Management in West Bengal: Syed Imran Hussain

➤ **Supervision of M. A. Dissertation**

Supervised several Master Dissertations on various Innovative Topics related to Cryosphere, Vulnerability, Disaster Management, Watershed Management, Landuse Landcover dynamics, Snow and Glaciers.

5. PROJECTS, GRANTS & COLLABORATIONS

- Project Director (PD) (2022-2024) of Major Research Project titled “Evolving adaptive Feed-forward Agricultural Practices (FFAP) for climate vulnerable Tribal Households of Cold Desert region, Lahaul and Spiti District” funded by ICSSR, New Delhi (Ongoing).
- Principal Investigator (PI) (2022-2023) of Institute of Eminence (IoE), University of Delhi Faculty Research Programme Grant titled “ Accelerated Change in Glacial Environment and Fragmentation of Glacier in Baspa River Valley" (Completed).
- Principal Investigator (PI) (2020-2022) of Department of Science and Technology (DST)-BRICS Project titled “Joint Validation of Multi-Source Remote Sensing Information and Sharing in BRICS Countries” (Ongoing)
- Project Title “Assessment of Glacial Lake Outburst Flood (GLOF) of Samudratapu Glacial Lake, Himachal Pradesh” (Completed)
- Project Title “Snow cover dynamics and its impact on livelihoods: A case study of Spiti river, Lahaul and Spiti district, Himachal Pradesh” (Completed)
- Project Title “Monitoring and modeling socio economic impact of Land use/cover and Pollution along Yamuna River, Delhi” (Completed)

6. PUBLICATIONS PROFILE

➤ **Books/Monographs (Authored/Edited):**

- Kumar, P; Nigam, G; Sinha, M.K; Singh, Anju (2022) Water Resources Management and Sustainability, Springer series Advances in Geographical and Environmental Sciences, Springer Singapore, Series ISSN 2198-3542, <https://doi.org/10.1007/978-981-16-6573-8>

➤ **Research papers published in Scopus/UGC CARE/ Refereed/Peer Reviewed/ Journals**

- **P. Kumar;** D. Deka; A. Yadav; **Ashwani;** M. Kumar; J.P. Das; A. Singh; A. Gurjar. "Potential and actual evapotranspiration and Landsat derived indices". *Global Journal of Environmental Science and Management*, 10, 3, 2024, 1227-1248. <https://doi.org/10.22034/gjesm.2024.03.18>
- **Kumar, P.,** Thakur, S., Ashwani *et al.* Urban waterlogging risk susceptibility within changing pattern of rainfall intensity in Delhi, India. *Acta Geophys.* (2024). <https://doi.org/10.1007/s11600-024-01336-0>
- **Kumar, P.,** Ashwani, Mishra, S., Thakur, S., Kumar, D., & Raman, V.A.V. (2023). Vulnerability of tribal communities to climate variability in Lahaul and Spiti, Himachal Pradesh, India. *Cografya Dergisi. Cografya Dergisi*, 47, 29-43. <https://doi.org/10.26650/JGEOG2023-1233134>
- Singh, M. S., **Kumar, P.,** Parijat, R., Gonencgil, B., & Rai, M. A. (2023). Establishing the relationship between land use land cover, normalized difference vegetation index and land surface temperature: A case of Lower Son River Basin, India. *Geography and Sustainability*. <https://doi.org/10.1016/j.geosus.2023.11.006> (Impact Factor 9.7 (2022))
- Majid, S. I., Kumar, M., **Kumar, P.,** & Verma, N. K. (2023). GIS-Based Flood Susceptibility Mapping of Srinagar District, India Using Weights-of-Evidence (WofE), Frequency Ratio (FR) and Fuzzy Gamma Operator (FGO). *Journal of the Indian Society of Remote Sensing, Springer Nature*, 1-26. <https://doi.org/10.1007/s12524-023-01776-z> (Impact Factor 2.5 (2022))
- Sarda, R., Gonencgil, B., Halder, S., & **Kumar, P.** (2023). A bibliometric analysis of agricultural vulnerability in the context of climate change from 2010 to 2021. *Spatial Information Research, Springer Nature*, 1-14. <https://doi.org/10.1007/s41324-023-00559-5> (Impact Factor 2.4 (2022))
- Zhang, F., Xu, N., Wang, C., Guo, M., & **Kumar, P.** (2023). Multi-scale coupling analysis of urbanization and ecosystem services supply-demand budget in the Beijing-Tianjin-Hebei region, China. *Journal of Geographical Sciences, Springer Nature*, 33(2), 340-356. <https://doi.org/10.1007/s11442-023-2085-y> (Impact Factor 4.9 (2022))
- Husain, Md. Arif, Pankaj Kumar, and Barbaros Gonencgil. 2023. "Assessment of Spatio-Temporal Land Use/Cover Change and Its Effect on Land Surface Temperature in Lahaul and Spiti, India" *Land* 12, no. 7: 1294. <https://doi.org/10.3390/land12071294>
- Husain, M. A., Kumar, P., Singh, A., Raman, V. A. V., Dua, R., & Thakur, S. (2023). Snow Cover and Snowline Variation in Relation to Land Surface Temperature in Spiti Valley, Himachal Pradesh, India. *International Journal of Ecology and Environmental Sciences*, 49, 187-199. <https://doi.org/10.55863/ijeec.2023.2624>
- Rahaman, S., Jahangir, S., Chen, R., & Kumar, P. (2022). Restricted Anthropogenic Activities and Improved Urban Air Quality in China: Evidence from Real-Time and Remotely Sensed Datasets Using Air Quality Zonal Modeling. *Atmosphere*, 13(6), 961. <https://doi.org/10.3390/atmos13060961> (IF 3.110)

- Wu, Feng; Guo, Naliang; Kumar, Pankaj; Niu, Lulu, Scenario-based extreme flood risk analysis of Xiong'an New Area in northern China, *Journal of Flood Risk Management*, 2021, <https://doi.org/10.1111/jfr3.12707> (IF 4.005)
- Saidur Rahaman, Selim Jahangir, Ruishan Chen, Pankaj Kumar, Swati Thakur, COVID-19's lockdown effect on air quality in Indian cities using air quality zonal Modeling, *Urban Climate*, 2021, 100802, ISSN 2212-0955, <https://doi.org/10.1016/j.uclim.2021.100802> (IF 6.663)
- Saini, A.; Sahu, N.; Kumar, P.; Nayak, S.; Duan, W.; Avtar, R.; Behera, S. Advanced Rainfall Trend Analysis of 117 Years over West Coast Plain and Hill Agro-Climatic Region of India. *Atmosphere* 2020, 11, 1225. <https://doi.org/10.3390/atmos11111225> (IF 3.110)
- Rahaman S, Kumar P, Chen R, Meadows ME and Singh RB (2020) Remote Sensing Assessment of the Impact of Land Use and Land Cover Change on the Environment of Bardhaman District, West Bengal, India. *Front. Environ. Sci.* 8:127, <https://doi.org/10.3389/fenvs.2020.00127> (IF 5.411)
- Abhijeet Ghadge, Sjoerd van der Werf, Merve Er Kara, Mohit Goswami, Pankaj Kumar, Michael Bourlakis, Modelling the impact of climate change risk on bioethanol supply chains, *Technological Forecasting and Social Change*, Volume 160, 2020, 120227, ISSN 0040-1625, <https://doi.org/10.1016/j.techfore.2020.120227> (IF 10.884)
- Rahaman, S., Jahangir, S., Haque, M.S. et al. Spatio-temporal changes of green spaces and their impact on urban environment of Mumbai, India. *Environ Dev Sustain* (2020). <https://doi.org/10.1007/s10668-020-00882-z> (IF 4.080)
- Kumar, P., Liu, W., Chu, X., Zhang, Y., & Li, Z. (2019). Integrated water resources management for an inland river basin in China. *Watershed Ecology and the Environment*, 1, 33-38. <https://doi.org/10.1016/j.wsee.2019.10.002>
- Kumar P, Husain A, Singh RB, et al. (2018) Impact of land cover change on land surface temperature: a case study of Spiti Valley. *Journal of Mountain Science* 15(8). <https://doi.org/10.1007/s11629-018-4902-9> (IF 2.371)
- Manish Kumar, R.B.Singh, Ram Pravesh, Pankaj Kumar, Dinesh Kumar Tripathi and Netrananda Sahu, (2017) Urban Growth Dynamics and Modeling using Remote Sensing Data and Multivariate Statistical Techniques, *Current Science*, Vol. 114, Issue 10, pp. 280-291, <https://doi:10.18520/cs/v114/i10/2080-2091> (IF 1.169)
- Nigam, G. K., Sahu, R. K., Sinha, M. K., Deng, X., Singh, R. B., & Kumar, P. (2017). Field assessment of surface runoff, sediment yield and soil erosion in the opencast mines in Chirimiri area, Chhattisgarh, India. *Physics and Chemistry of the Earth, Parts A/B/C*, 101, 137-148. <https://doi.org/10.1016/j.pce.2017.07.001> (IF 3.331)
- Kumar, Pankaj and Rahaman, Saidur (2016) Pre and Post Regional Development Scenario in India. *Journal of Urban and Regional Studies on Contemporary India*, Vol. 3 (1): pp 1-10. https://ir.lib.hiroshima-u.ac.jp/files/public/4/41504/20161109142022946430/JURSCI_3-1_1.pdf
- Kumar, M., & Kumar, P. (2016). Snow cover dynamics and geohazards: a case study of Bhilangna watershed, Uttarakhand Himalaya, India. *Geoenvironmental Disasters*, 3(1), 1-8. <https://doi.org/10.1186/s40677-016-0035-z> (SNIP 1.494)

- Sahu, N., Singh, R. B., Kumar, P., Silva, R. V. D., & Behera, S. K. (2013). La Niña impacts on Austral Summer extremely high-streamflow events of the Paranaíba River in Brazil. *Advances in Meteorology*, 2013. <https://doi.org/10.1155/2013/461693> (IF 2.223)

➤ **Chapters in Book:**

- Kumar, S., **Kumar, P.**, Singh, A., Ashwani, Kumar, M. (2022). Socio Economic Livelihood Vulnerability to Mountain Hazards: A Case of Uttarakhand Himalaya, India. In: Singh, R.B., Kumar, M., Tripathi, D.K. (eds) Remote Sensing and Geographic Information Systems for Policy Decision Support. Advances in Geographical and Environmental Sciences. Springer, Singapore. https://doi.org/10.1007/978-981-16-7731-1_8
- Kapur, A.S., **Kumar, P.**, Areendran, G., Raj, K. (2022). The Magnitude of Transformation in Land Use Land Cover of Kalyan-Dombivli, Smart City. In: Singh, R.B., Kumar, M., Tripathi, D.K. (eds) Remote Sensing and Geographic Information Systems for Policy Decision Support. Advances in Geographical and Environmental Sciences. Springer, Singapore. https://doi.org/10.1007/978-981-16-7731-1_14
- **Kumar, P.**, Ojha, S., Nigam, G.K., Singh, A., Sinha, M.K. (2022). Water Resources, Livelihood Vulnerability and Management in Rural Desert Communities of Jaisalmer, India. In: Kumar, P., Nigam, G.K., Sinha, M.K., Singh, A. (eds) Water Resources Management and Sustainability. Advances in Geographical and Environmental Sciences. Springer, Singapore. https://doi.org/10.1007/978-981-16-6573-8_1
- Bhadwal, S., Verma, N. K., Kumar, S., Kumar, M., & **Kumar, P.** (2022). Morphometric Analysis and Geohydrological Inference of Bhilangna Drainage Basin, Uttarakhand (India) Using Remote Sensing and GIS Techniques. In *Water Resources Management and Sustainability* (pp. 403-422). Singapore: Springer Nature Singapore https://doi.org/10.1007/978-981-16-6573-8_19
- Husain, A., & **Kumar, P.** (2021). Remote Sensing and GIS-Based Morphometric Analysis of Spiti River Basin. *Water Science and Sustainability*, 213-223. https://doi.org/10.1007/978-3-030-57488-8_16
- Kumar, M., & Kumar, P. (2016). Snow cover dynamics and timberline change detection of Yamunotri watershed using multi-temporal satellite imagery. *Climate Change, Glacier Response, and Vegetation Dynamics in the Himalaya: Contributions Toward Future Earth Initiatives*, 391-399. https://doi.org/10.1007/978-3-319-28977-9_20
- **Kumar, P.**, & Singh, R. B. (2014). Climate Change, Glacier Lakes, and Livelihoods. In *Livelihood Security in Northwestern Himalaya* (pp. 27-40). Springer, Tokyo. https://doi.org/10.1007/978-4-431-54868-3_3
- Singh, R. B., & **Kumar, P.** (2014). Geographic and socio-economic realities of Himachal Pradesh, Northwestern Himalaya. In *Livelihood Security in Northwestern Himalaya* (pp. 11-26). Springer, Tokyo. https://doi.org/10.1007/978-4-431-54868-3_2
- Singh, R. B., & **Kumar, P.** (2014). Climate change and glacial lake outburst floods in Himachal Himalaya, India. In *Climate change and biodiversity* (pp. 3-14). Springer, Tokyo. https://doi.org/10.1007/978-4-431-54838-6_1

➤ **Participation in International Conferences, Seminars and Workshops:**

- Attended a workshop on “**Ecological modeling**” organized by Center for Chinese Agricultural Policy, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China during 10th June to 20th June, 2014.
- Presented a research paper titled “**Glacial Lake Outburst Flood (GLOF): A Case Study of Parechu Lake Outburst, Himachal Himalaya, India**” in a workshop on “**Ecological Modeling**” organized by Center for Chinese Agricultural Policy, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China during 10th June to 20th June, 2014.
- Delivered a talk on “**Contemporary Regional Development in India**” in HINDAS 2015 4th Regular Seminar at Hiroshima University on October 10th, 2015 organized by The Center for Contemporary India Studies.
- Presented a paper entitled “**Glacial Lake Outburst Floods and Integrated River Basin Management: A Case of Lahaul and Spiti District, Himachal Pradesh**” in the 33rd International Geographical Congress (IGC) session of Research on Water Scarcity and Water Allocation for Integrated River Basin Management held between 21-25 August, 2016, Beijing, China.
- Attended an “International Training Workshop on Scientific Big Data Sharing and Publication for Developing Countries” organized by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China during 16th October to 4th November, 2017.

➤ **Participation in National Conferences, Seminars and Workshops:**

- Presented a paper on “**Post Tsunami Tourism Development in Andaman and Nicobar Islands**” in the “**International conference on Environment and Development: Challenges and Opportunities**” organized by Swami Shraddhanand College, University of Delhi, Alipur from 4th to 6th March 2005.
- Participated and presented a paper on “**The Dynamics of Mountain Tourism In Uttarkashi**” in 30th Indian Geography Congress on The Planet Earth: A Blueprint For Survival. Organized by the Department of Geography University of Allahabad from 19th to 21st December 2008.
- Attended and Participated in the national seminar on “**Urbanization and Changing State of Environment**” held on 24th and 25th September 2012, sponsored by ICSSR New Delhi, organized by Department of Geography, St. Xavier College, Ranchi, Jharkhand.
- Participated and presented a paper on “**Monitoring Snow Cover of Himachal Himalaya using Remote Sensing and GIS**” in the 34th Indian Geography Congress held in Department of Geography, Patna University, Patna from 2nd to 4th November 2012.
- Participated in Pre Symposium Tutorials on **LiDAR Technology and its Applications** held on 3rd and 4th December 2012 in the Division Agricultural Physics, Indian Agricultural Research Institute, New Delhi
- Presented a paper entitled “**Inventory and monitoring of Glacial lakes in Himachal Himalaya using Spatial Information Technology**” in the **International Geographical Union (IGU) Conference on Geoinformatics for Biodiversity and Climate Change** organized by Department of Geography, Maharshi Dayanand University, Rohtak on March 14-16, 2013.

- Presented a paper on “**GIS Education and Research in India**” in the National Seminar sponsored by the UCOST, Dehradun and UGC Academic Staff College, Nainital Organized by NRDMS in Uttarakhand, Department of Geography Kumaon University, SSJ Campus, Almora on 30th November 2013.
 - Presented a paper entitled “**Socio-Economic Analysis of Land Use and Land Cover Change: A Geo Spatial Study of Spiti Valley, Himachal Pradesh**” in the 9th International Geographical Union (**IGU**) Conference on Land use Change, Climate Extremes and Disaster Risk Reduction held in Shaheed Bhagat Singh College, University of Delhi, New Delhi, from March 18th- 20th, 2016.
 - Presented a paper entitled “**Monitoring Potential Geo-hazard Risk of Lake Outburst: A Case of Samudratapu Glacial Lake, Lahaul and Spiti District, Himachal Pradesh**” in the 9th International Geographical Union (**IGU**) Conference on Land use Change, Climate Extremes and Disaster Risk Reduction held in Shaheed Bhagat Singh College, University of Delhi, New Delhi, from March 18th- 20th, 2016.
 - Presented a paper entitled “**Glacial lake outburst flood and Integrated River Basin Management: A case of Lahaul and Spiti district, Himachal Pradesh**” in a session on Research on Water Scarcity and Water Allocation for Integrated River Basin Management in the 33rd International Geographical Congress organized by Geographical Society of China, Beijing during August 21st to 25th 2016.
 - Presented a paper entitled “**The effects of snow cover dynamic on agricultural economy and its sustainability: A case study of Spiti Himalaya**” in DST & Ministry of Earth Sciences Sponsored International Conference on Spatial Decision Support Systems for United Nations Sustainable Development Goals Organized by Kalindi College, University of Delhi on February 1&2, 2017.
 - Presented a paper entitled “Seasonal and Spatial Characteristics of Urban Heat Island : A Case Study of Mumbai” in International Conference of Livable Cities : Transforming Sustainability and its Challenges organized by Department of Geography, Shaheed Bhagat Singh College, University of Delhi from 5th to 7th February, 2018.
- **Special Issue: Guest Editor of High Impact Factor Journals**
- Guest Editor, Special Issue titled “Accelerating the transformation towards Sustainable Development Goals and Post Fossil-Carbon Society: Economic Impact and Social Cost of Climate Change and Carbon Reduction” in the Journal of Cleaner Production, Elsevier (IF: 6.395)
 - Guest Editor, Special Issue titled “Social-economic Costs of and Environmental Management Contributions to Carbon Emission Reductions” in the Journal of Technological Forecasting & Social Change”, Elsevier (IF: 3.8)

➤ **National/International Capacity Building training:**

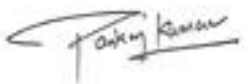
- International AOGEOSS Training Workshop on Data Access, handling and applications organized by The AOGEOSS 2018 International Conference Secretariat (Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences) May 18th and 19th 2018 at Deqing, Zhejiang, China
- International Training Workshop on Scientific Big Data Sharing and Publication for Developing Countries organized by Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China during 16th October to 4th November, 2017 at Beijing, China
- Hydro-informatics for Integrated Water Resources Management conducted by Indian Institute of Technology (IIT) Madras in collaboration with MHRD, Government of India, on the theme Global Initiative of Academic Networks from November 28th, 2016 to 9th December 2016 at IIIT Campus, Chennai, India
- Remote Sensing and Geographical Information System Applications in Geo-Sciences conducted by ISRO-NNRMS, Indian Institute of Remote Sensing (IIRS) Dehradun from May 02, 2016 to June 24, at IIRS Campus, Dehradun, India

➤ **Journal Manuscript Reviewer**

- Acta Geophysica, Springer
- Ecological Modelling, Elsevier
- International Journal of Remote Sensing, Taylor & Francis
- Journal of Cleaner Production, Elsevier
- Journal of Environmental Management, Elsevier
- Land Use Policy, Elsevier
- Physics and Chemistry of the Earth, Elsevier
- Resources, Conservation & Recycling, Elsevier
- Science of the Total Environment, Elsevier
- Urban Climate, Elsevier
- GeoJournal, Springer
- Mountain Research and Development

8. Membership

- Life Member, National Association of Geographers, India (NAGI).
- Life Member, Association of Geographical Studies (AGS).
- Life Member, The Indian Science Congress Association (ISCA), Kolkata, India.



Signature of Faculty Member