

# Brief CV

## Dr. Pankaj Kumar

Assistant Professor

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### Educational Qualifications:

**+2014** Ph.D. from Department of Geography, Delhi School of Economics, University of Delhi on topic "Glacial Lake Outburst Floods and Associated Geo-hazards in Himachal Himalaya".

### Areas of Interest / Specialization:

Montology, Watershed Modelling, Regional and Urban Landscape Dynamics, Remote Sensing and GIS

### Recent Research Publications:

**+2021** 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, ISSN:1753-318X, <https://doi.org/10.1111/jfr3.12707>, Impact Factor **3.884** (2021)

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>, Impact Factor **5.731** (2021)

**+2020** 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 **2.686** (2021)

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 **4.581** (2021)

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>, Impact Factor **8.593** (2021)

Rahaman, S., Jahangir, S., Haque, M. S., Chen, R., & **Kumar, P.** (2021). Spatio-temporal changes of green spaces and their impact on urban environment of Mumbai, India. *Environment, Development and Sustainability*, 23(4), 6481-6501. <https://doi.org/10.1007/s10668-020-00882-z>. IF **3.219** (2021)

**+2018** **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>, Impact Factor **2.071** (2021)

**+2017** 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>, Impact Factor **1.102** (2021)

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## Research Projects Ongoing/Completed:

- +2020-2022** Co-PI of Department of Science and Technology (DST)-BRICS Project titled “Joint Validation of Multi-Source Remote Sensing Information and Sharing in BRICS Countries” (Ongoing)
- +2015-2016** Project Title “Assessment of Glacial Lake Outburst Flood (GLOF) of Samudratapu Glacial Lake, Himachal Pradesh” (Completed)
- +2014-2015** Project Title “Snow cover dynamics and its impact on livelihoods: A case study of Spiti river, Lahaul and Spiti district, Himachal Pradesh” (Completed)
- +2013-2014** Project Title “Monitoring and modeling socio economic impact of Land use/cover and Pollution along Yamuna River, Delhi” (Completed)

## National/International Capacity Building training:

- +2018** “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 18<sup>th</sup> and 19<sup>th</sup> 2018 at Deqing, Zhejiang, China
- +2017** “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
- +2016** “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 IIT 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

## Doctoral Thesis Supervision

- +2021** Mr. Abhinav Rai, with PhD title “ Monitoring Glacier and Runoff Regime Change of Chandra River Basin, Lahaul and Spiti, Himachal Pradesh”. (Ongoing)
- +2020** Mr. Anish Kumar Rai, with PhD title “ Spatio-Temporal Assessment of Urban Heat Island and its Implications in Kaval Cities, U.P (india)”. (Ongoing)
- +2018** Ms. Shipra Singh, with PhD title “ Impact of Land use and Climate Change on Water Resource Sustainability in Sundargarh Watershed”. (Ongoing)
- +2017** Mohd. Arif Husain, with PhD title “ Geospatial Study of Snow Cover Dynamics in Lahaul and Spiti District, Himachal Pradesh”. (Ongoing)
- +2015** Ms Rashmi with PhD title “Land use planning and livelihood options in the flood affected region of Saran plain”. (Submitted)

## Association with Professional Bodies

- +2020-2022 Assistant Secretary General, **International Geographical Union (IGU)**
- +2020-2024 **Secretary**, Commission on Mountain Studies, **International Geographical Union (IGU)**
- +2020 Life Member, **The Indian Science Congress Association (ISCA)**, Kolkata, India
- +2009 Life Member, **National Associations of Geographers, India (NAGI)**, Delhi, India