

**CONTACT DETAIL**

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**Scopus Author ID:** [57216493205](#)**H-Index (Scopus):** 12**H-Index (Google Scholar):** 13**Citations (Scopus):** 431**Cumulative Impact Factor:** 86.4**Mean Impact Factor:** 03.20**i10-index:** 17**Citations (Google Scholar):** 607

<b>Research Articles</b> [International Journals/ SCOPUS]: 27/27	<b>Research Articles</b> [National Journals]: 07	<b>Research Articles</b> Under Review: 05
<b>Book Chapters:</b> 04	<b>Invited Lectures/Talks:</b> 12	<b>Paper Presented in Conferences:</b> 17
<b>Research Experience:</b> 4.5 Years	<b>Total Research Articles:</b> 34	<b>Total Book Chapters:</b> 04
<b>Verified Peer Reviews</b> (Web of Science): 43	<b>Web of Science ResearcherID:</b> <a href="#">ABE-7114-2020</a>	

**EDUCATIONAL QUALIFICATION**

❖ <b>Ph.D. (Geography)</b> Department of Geography, University of Delhi, India Title: <b><u>“Shifting of Monsoon Onset and Its Impact on Environment in India”</u></b>	Mar 2016 to Nov 2021
❖ <b>Post Graduate Diploma in Rural Development</b> Indira Gandhi National Open University (IGNOU)	February 2016
❖ <b>UGC-NET (JRF)</b>	September 2015
❖ <b>B.Ed.</b> Guru Gobind Singh Indraprastha University	Jul 2013 to Jul 2014

❖ <b>M.A. (Geography)</b> <b>Delhi School of Economics (University of Delhi)</b>	<b>Jul 2010 to Dec 2012</b>
❖ <b>B.A. (H) Geography</b> <b>Swami Shraddhanand College (University of Delhi)</b>	<b>Jun 2007 to Jul 2010</b>

## RESEARCH INTEREST

Extreme Events, Climate Modelling, Climate Variability, Climate Change, Monsoon Dynamics, Monsoon Onset, South Asian Monsoon, Climate Teleconnection, Climate and Agriculture, Seasonal Shifting

## COMMAND ON SOFTWARE/PROGRAMMING LANGUAGES

NCL (NCAR Command Language), R- Programming, Python, GrADS (Grid Analysis and Display System), ArcGIS, SPSS, LateX, MS-Office and Adobe Photoshop

## ACADEMIC/TEACHING EXPERIENCE

- ❖ **Assistant Professor** at the Department of Geography, Hemvati Nandan Bahuguna Garhwal University (Central University), Uttarakhand, India (March 2024- Present)
- ❖ **Assistant Professor** at Department of Geography, Kalindi College, University of Delhi, Delhi 10008, India (October 2023 - March 2024)

## RESEARCH EXPERIENCE

- ❖ **Post-Doctoral Fellow** at Delhi School of Climate Change & Sustainability, Institution of Eminence, University of Delhi, India (January 2022- December 2023)
- ❖ **Research Associate** at the DST Center of Excellence in Climate Modelling, Center for Atmospheric Sciences, IIT Delhi, India (April 2021- December 2021).

## **PUBLICATIONS**

### **RESEARCH ARTICLES [International Journals - SCOPUS Indexed]:**

#### **Published:**

1. Mishra, M., Naik, A. K., Guria, R., **Saini, A.**, Hatui, P., Bag, M. R., Sahoo, D., Silva, R. M.da., Santos, C. A. G. (2026). Mapping Lightning Flash Density and Fatality Risk in Uttar Pradesh Using Satellite-Based LIS Data and Geospatial Technology. *CLEAN – Soil, Air, Water*, 54(2), pp. 1–16. <https://doi.org/10.1002/clen.70115>. (IF:1.4, Scopus, WoS: **SCI Expanded**), **Journal Rank: Q3** (Environmental Chemistry)
2. Bal, P.K., Bal, Subash, D., Parihar, R. S., **Saini, A.** (2025). Changing climate and its impacts on the dynamics of future malaria transmission over certain endemic regions in India. *Scientific reports*, 15(1), p. 35412. <https://doi.org/10.1038/s41598-025-07971-x> (IF:3.8, Scopus, WoS: **SCI Expanded**), **Journal Rank: Q1** (Multidisciplinary).
3. Sahu, N., Kesharwani, R., Das, P., Kumar, A., Varun, A., **Saini, A.**, Mallick, S. K., & Mishra, M. M. (2025). Spatiotemporal dynamics of rice cultivation in India. *Tropical Ecology*, 0123456789. <https://doi.org/10.1007/s42965-025-00368-x> (IF:1.1, Scopus, WoS: **SCI Expanded**), **Journal Rank: Q2** (Ecology).
4. Goldar, B., Goldar, A., Parida, Y., & **Saini, A.** (2025). Impact of cyclones on manufacturing firms in India. *Environment and Development Economics*, 1–21. <https://doi.org/10.1017/S1355770X24000317> (IF:2.2, Scopus, WoS: **Social Sciences Citation Index**), **Journal Rank: Q1** (Development).
5. Sahu, N., Nayan, R., Panda, A., Varun, A., Kesharwani, R., Das, P., Kumar, A., Mallick, S. K., Mishra, M. M., **Saini, A.**, Aggarwal, S. P., & Nayak, S. (2024). Impact of Changes in Rainfall and Temperature on Production of Darjeeling Tea in India. *Atmosphere (Basel)*, 16(1), 1. <https://doi.org/10.3390/atmos16010001> . (IF:2.5, Scopus, WoS: **SCI Expanded**), **Journal Rank: Q2** (Atmospheric Science, Environmental Science (miscellaneous)).
6. Sahu, N., Mallick, S. K., Das, P., **Saini, A.**, Sayama, T., Varun, A., Kumar, A., Kesharwani, R., & Thakur, P. K. (2024). Climatic impacts on spring disappearance in the Indian Himalayas. *Geomatics, Natural Hazards and Risk*. 15(1),

- <https://doi.org/10.1080/19475705.2024.2433115>. (IF:4.5, Scopus, WoS: SCI Expanded), Journal Rank: Q1 (Earth and Planetary Sciences).
7. Mallick, S. K., Sahu, N., Das, P., Maity, B., Varun, A., Kumar, A., Keswarwani, R., **Saini, A.**, & Rudra, S. (2024). Impact of urban growth in Delhi and Its Peri-urban environment on urban heat exposure. *Urban Climate*, 56, 102010, <https://doi.org/10.1016/j.uclim.2024.102010> . (IF:6.0, Scopus, WoS: SCI Expanded), Journal Rank: Q1 (Atmospheric Science).
  8. Sahu, N., Das, P., Ratna, S. B., Saini, A., Kumar, S., & Anil, M. (2024). A bibliometric analysis for Indian summer monsoon variability. *Spatial Information Research*. <https://doi.org/10.1007/s41324-024-00587-9> . (IF:2.0, Scopus, WoS: ESC Expanded), Journal Rank: Q2 (Computers in Earth Sciences).
  9. Thakur, P. K., Samant, S. S., Verma, R. K., **Saini, A.**, & Chauhan, M. (2024). Monitoring forest cover changes and its impact on land surface temperature using geospatial technique in Talra Wildlife Sanctuary, Shimla, India. *Environment, Development and Sustainability*, 0123456789. <https://doi.org/10.1007/s10668-023-04347-x> . (IF:4.7, Scopus, WoS: SCI Expanded), Journal Rank: Q1 (Geography, Planning and Development).
  10. **Saini, A.**; Sahu, N.; Nayak, S. (2023) Determination of Grid-Wise Monsoon Onset and Its Spatial Analysis for India (1901-2019). *Atmosphere (Basel)*. 14 <https://doi.org/10.3390/atmos14091424> . (IF:2.5, Scopus, WoS: SCI Expanded), Journal Rank: Q2 (Atmospheric Science, Environmental Science (miscellaneous)).
  11. Pandit, P., **Saini, A.**, Sahu, N., Mehra, R. (2023) Geochemical Evaluation and Environmental Risk Assessment of Heavy Metals: A case study from Ireland using Tellus stream sediment data (2011-2017) *Groundwater for Sustainable Development*. 23, 100974, <https://doi.org/10.1016/j.gsd.2023.100974> . (IF:4.9, Scopus, WoS: ESC Index), Journal Rank: Q1 (Environmental Chemistry).
  12. Sahu, N., Das, P., **Saini, A.**, Varun, A., Mallick, S. K., Nayan, R., Aggarwal, S. P., Pani, B., Kesharwani, R., & Kumar, A. (2023). Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. *Sustainability (Switzerland)*, 15(13), 10101. <https://doi.org/10.3390/su151310101> .

(**IF:3.3, Scopus/ WoS: SCI Expanded, Social Sciences Citation Index**), **Journal Rank: Q1**(Geography, Planning and Development), **Q2** (Energy Engineering and Power Technology, Environmental Science, Management, Monitoring, Policy and Law, Renewable Energy, Sustainability and the Environment).

13. Nirbhav, Malik, A., Maheshwar, Prasad M., **Saini A.**, Thanh Long N. (2023). A comparative study of different machine learning models for landslide susceptibility prediction: a case study of Kullu-to- Rohtang pass transport corridor, India. *Environmental Earth Science*, 82(7). <https://doi.org/10.1007/s12665-023-10846-x> . (**IF:2.8 Scopus, WoS: SCI Expanded**), **Journal Rank: Q2** (Earth Surface Processes).
14. **Saini, A.**, Sahu, N., Mishra, S. K., Jain, S., Behera, S., Dash, S. K. (2022). The Spatio-Temporal Onset Characteristics of Indian Summer Monsoon Rainfall and Their Relationship with Climate Indices. *Atmosphere*, 13(10), p. 1581. <https://doi:10.3390/atmos13101581> . (**IF:2.5, Scopus, WoS: SCI Expanded**), **Journal Rank: Q2** (Atmospheric Science, Environmental Science (miscellaneous)).
15. Tyagi, N., Jayal, T., Singh, M., Mandwal, V., **Saini, A.**, Nirbhav, Sahu, N., Nayak, S. (2022) Evaluation of Observed and Future Climate Change Projection for Uttarakhand, India Using CORDEX-SA. *Atmosphere*, 11(2), 1-19, <https://doi:10.3390/atmos13060947> . (**IF:2.5, Scopus, WoS: SCI Expanded**), **Journal Rank: Q2** (Atmospheric Science, Environmental Science (miscellaneous)).
16. Pandit, P., **Saini, A.**, Chidambaram, S., Kumar, V., Panda, B., Ramanathan, A.L., Sahu, N., Singh, A.K., Mehra, R. (2022). Tracing Geochemical Sources and Health Risk Assessment of Uranium in Groundwater of Arid Zone of India. *Scientific Reports*, 12, 2286, <https://doi:10.1038/s41598-022-05770-2> . (**IF:3.8, Scopus, WoS: SCI Expanded**), **Journal Rank: Q1** (Multidisciplinary)
17. Parihar, R.S., Bal, P.K., **Saini, A.**, Mishra, S.K., Thapliyal, A. (2022). Potential Future Malaria Transmission in Odisha Due to Climate Change. *Scientific Reports*, 12, 9048, <https://doi:10.1038/s41598-022-13166-5> . (**IF:3.8, Scopus, WoS: SCI Expanded**), **Journal Rank: Q1** (Multidisciplinary)
18. Parihar, R.S., Bal, P.K., Thapliyal, A., **Saini, A.** (2022). Climate Change Projections and Its Impacts on Potential Malaria Transmission Dynamics in Uttarakhand. *Journal of*

- Communicable Diseases*, 54, 47– 53, <https://doi.org/10.24321/0019.5138.202249> . (Scopus), **Journal Rank: Q4** (Infectious Diseases).
19. **Saini, A.**, Sahu, N., Duan, W., Kumar, M., Avtar, R., Kumar, P., Pandey, R., Behera, S. (2022). Unraveling Intricacies of Monsoon Attributes in Homogenous Monsoon Regions of India. *Frontiers in Earth Science*, 10(March), 94. <https://doi.org/10.3389/feart.2022.794634> . (IF:2.0, Scopus/ WoS: SCI Expanded), **Journal Rank: Q1** (Multidisciplinary).
  20. Nayak, S., Maity, S., Sahu, N., **Saini, A.**, Singh, K. S., Nayak, H. P., Dutta, S. (2022). Application of “Observation Minus Reanalysis” Method towards LULC Change Impact over Southern India. *ISPRS International Journal of Geo-Information*, 11(2), 94. <https://doi.org/10.3390/ijgi11020094> . (IF:3.4, Scopus, WoS: SCI Expanded), **Journal Rank: Q1** (Earth and Planetary Sciences (miscellaneous) Geography, Planning and Development), **Q2** (Computers in Earth Sciences).
  21. **Saini, A.**, & Sahu, N. (2021). Decoding Trend of Indian Summer Monsoon Rainfall Using Multimethod Approach. *Stochastic Environmental Research and Risk Assessment*. <https://doi.org/10.1007/s00477-021-02030-z> . (IF:3.9, Scopus, WoS: SCI Expanded), Rank 18/50 (Environmental Engineering), **Journal Rank: Q1** (Environmental Science (miscellaneous), Safety, Risk, Reliability and Quality, Water Science and Technology), **Q2** (Environmental Chemistry, Environmental Engineering).
  22. **Saini, A.**, Sahu, N., Sayama, T., Nayak, S., Duan, W., Avtar, R., Behera, S.K. (2020). Advanced rainfall trend analysis of 117 years over West Coast Plain and Hill Agro-Climatic region of India. *Atmosphere*. 11(11). <https://doi.org/10.3390/atmos11111225> . (IF:2.5, Scopus, WoS: SCI Expanded), **Journal Rank: Q2** (Atmospheric Science, Environmental Science (miscellaneous)).
  23. Sahu, N., Sayama, T., **Saini, A.**, Panda, Takara, K. (2020). Understanding the Hydropower and Potential Climate Change Impact on the Himalayan River Regimes—A Study of Local Perceptions and Responses from Himachal Pradesh, India. *Water*. 12(10). <https://doi.org/10.3390/w12102739> . (IF:3.0, Scopus/ WoS: SCI Expanded), **Journal Rank: Q1** (Geography, Planning and Development), **Q2** (Water Resources).

24. Sahu, N., **Saini, A.**, Behera, S.K., Sayama, T., Sahu, L., Avtar, R., Yamada, M., Singh, R.B., Takara, K. (2020). Impact of Indo-Pacific Climate Variability on Rice Productivity in Bihar, India. *Sustainability*.  
12(17). <https://doi.org/10.3390/su12177023> . (IF:3.3, Scopus/ WoS: SCI Expanded, Social Sciences Citation Index), Journal Rank: Q1(Geography, Planning and Development), Q2 (Energy Engineering and Power Technology, Environmental Science, Management, Monitoring, Policy and Law, Renewable Energy, Sustainability and the Environment).
25. Sahu, N., Panda, A., Nayak, S., **Saini, A.**, Mishra, M., Sahu, L., Avtar, R., Behera, S.K. (2020). Impact of Indo-Pacific Climate Variability on High Streamflow Events in Mahanadi River Basin, India. *Water*,  
12(7). <https://doi.org/10.3390/w12071952> . (IF:3.0, Scopus/ WoS: SCI Expanded), Journal Rank: Q1 (Geography, Planning and Development), Q2 (Water Resources).
26. Sahu, N., **Saini, A.**, Behera, S.K., Sayama, T., Sahu, L., Nguyen, V.T.V. (2020). Why Apple Orchards are Shifting to the Higher Altitudes of the Himalayas? *PLOS ONE*, 15(7): e0235041. <https://doi.org/10.1371/journal.pone.0235041> . (IF:2.9, Scopus, WoS: SCI Expanded), Journal Rank: Q1 Multidisciplinary.
27. Pandit, P., Mangala, P., **Saini, A.**, Bangotra, P., Kumar, V., Mehra, R., Ghosh, D. (2020). Radiological and Pollution Risk Assessments of Terrestrial Radionuclides and Heavy Metals in a Mineralized Zone of the Siwalik Region (India). *Chemosphere*, 254, 126857. <https://doi:10.1016/j.chemosphere.2020.126857> . (IF: 8.1, Scopus), Journal Rank: Q1 (Chemistry (miscellaneous), Environmental Chemistry, Environmental Engineering, Health, Toxicology and Mutagenesis, Medicine (miscellaneous), Pollution, Public Health, Environment and Occupational Health), Rank 19/98, (Environmental Chemistry).

#### **RESEARCH ARTICLES [National Journals]:**

1. **Saini, A.**, & Sahu, N. (2020). Shifting of Monsoon Onset and Understanding its Expected Impact on Environment in India. *Indian Geographical Journal*, 95(2), 292-302. [UGC-

### **CARE List]**

2. Jaiswal, S., Anand S., **Saini, A.** (2019). Analyzing the Soil Health of Yamuna Flood Plains, Delhi. *The Horizon*, 10(2), 1-10.
3. **Saini, A.**, Anand S., Singh A. (2018). Floriculture and Livelihood Security: A Case Study of Rural- Urban Fringe in North West Delhi, India. *Journal of Water and Land use Management*, 16(1).
4. Mishra, M. M., Prasad, S., **Saini, A.** (2018). Social Constraints and Vulnerabilities to Agricultural Practices in Ghazipur District: Case Study of Saidpur Block. *Social Work Chronicle*, 7(1), 1-14.
5. Nirbhav, Kumar, N., **Saini, A.** (2017). Dynamics of Climate Change and Food Security in India. *New Man International Journal of Multidisciplinary Studies*, 4(12), 42-49.
6. **Saini, A.** & Anand, S. (2013). Trend Analysis of Decadal Change in Minimum Temperature in 20<sup>th</sup> Century: Case of Delhi, India. *Indian Geographical Journal*, 88(2), 116-124. [UGC-CARE List]
7. Saroj, M.; **Saini, A.** (2012). Utilisation of Land Resources in City Systems: A Case of Mumbai and Delhi. *Indian Geographical Journal*, 87, 138–144. [UGC-CARE List]

### **BOOK CHAPTER:**

1. **Saini, A.** (2025). Voices from the Himalayas: Using Indigenous Languages as Tools for Climate Resilience in Uttarakhand. In R. Sharma, R. K. Sharma, & A. Lamba (Eds.), *Aligning Sustainability with Indian Knowledge Systems for VIKSHIT BHARAT* (p. 16). New Delhi, Delhi: JSR Publishing House LLP.
2. **Saini, A.** (2019). Evolution of Temperature and Rainfall over India and South Korea: Analysis of Recent Period. In *Strengthening Special Strategic Partnership INDIA & SOUTH KOREA Prospects and Challenges* (1st ed., pp. 111-122). New Delhi, Delhi: Manak Publications Pvt.
3. **Saini, A.**, & Sahu, N. (2018). Climate Variability, Land-Use and Land-Cover Change (LULC) in Temperate River Basin: A Case from Han River Basin, South Korea. In *Act East: Transitions in India's Engagement with South Korea* (1st ed., pp. 84-95). New

Delhi, Delhi: Manak Publications Pvt.

4. **Saini, A., & Sahu, N. (2017).** Urbanization Induced Air Pollution and Its Impact: Cases of Delhi and Seoul. In *India Korea Relations Forging a Multidimensional Partnership in the 21st Century* (1st ed., pp. 123-143). New Delhi, Delhi: Manak Publications Pvt.

### **STUDY MATERIAL CONTRIBUTION:**

1. **Contributor (Author)** – Study Material, *Unit 9: Water Use and Availability of Block 3: Water Resources* for the course *Hydrology & Water Resources* (M.A./M.Sc. Geography), **IGNOU, 2025.**
2. **Contributor (Author)** – Study Material, *Unit 11: Climate Change and Resource Management of Block 3: Management Strategies* for the course *Natural Resource Management* (M.A./M.Sc. Geography), **IGNOU, 2025.**

### **PROJECTS COMPLETED/ONGOING**

- Completed a project under “Faculty Research Programme Grant – IoE, DU” of Rs. 3,00,000/- titled “Impact Assessment of Climate Change and Sea Level Rise in Submergence of Munroe Island” during 2022-2023. **[Co-PI]**
- Completed a project under “Faculty Research Programme Grant – IoE, DU” of Rs. 3,00,000/- on the title “Diyara Identification, Vulnerability Assessment, Climate Change Projections, and Climate-Resilient Solutions for the Bihar Gangetic Region” during the year 2023-2024. **[Co-PI]**

### **CONFERENCES/ SEMINAR/ WORKSHOPS ORGANISED**

- **Seminar Lecture** by Prof. G.V.R. Prasad on “Climate Change and Deep Time Earth's History” on 23<sup>rd</sup> June 2023 at the Department of Geology, University of Delhi.

### **PAPER PRESENTED**

1. “*Voices from the Himalayas: Using Indigenous Languages as Tools for Climate Resilience in Uttarakhand*” in the international conference on Aligning Sustainability

with Indian Knowledge Systems for a Viksit Bharat organized by Vivekanand Institute of Professional Studies-TC from 18-19<sup>th</sup> February 2025.

2. ***“Role of Community in Disaster Management in the Fragile Himalayas Amidst Climate Change”*** in the international seminar **on** Sustainable Development and Community Engagement: Understanding Participation and Empowerment organized by Satyawati College (Eve.), University of Delhi and Indian Council of Social Science Research on 27<sup>th</sup> November 2024.
3. ***“Water Scarcity a Climate Change Issue: Role of Women in Society”*** in the national seminar organised by the Department of Sociology, Dr BGR Campus, Pauri, HNB Garhwal University, Uttarakhand **on** Gender Issues: Challenges, Strategies and Solutions from 15<sup>th</sup>-16<sup>th</sup> October 2024.
4. ***“Evaluating Temperature Datasets for Climate Research and Decision-Making in India”*** in a national seminar organized by the Centre for the Study of Regional Development, Jawaharlal Nehru University, New Delhi **on** Disaster Risk Reduction in the Himalayas: Recent Advancements in the year 2024.
5. ***“Shifting of Monsoon Onset in India and Its Expected Impact on Environment in India”*** in International Conference (Online) organized by Department of Geography, Jamia Millia University, New Delhi-110025 **on** Building Resilient and Sustainable Societies: Emerging Social and Economic Challenges in the year 2020.
6. ***“Climate Change Scenarios for Precipitation Extremes in South Korea”*** in an International Seminar organized by the Researchers’ Association for the Study of Korea (RASK) **on** Indo-Korea Relations under Act East Policy: Issues and Challenges in 2019.
7. ***“Evolution of Temperature and Rainfall over India and South Korea: Analysis of Recent Period”*** in International Seminar organized by Researchers’ Association for the Study of Korea (RASK) **on** Strengthening Special Strategic Partnership between India and South Korea: Prospects and Challenges in the year 2018.
8. ***“Climate Dynamics Based Causes Enhancing Vulnerability of Apple in Himachal Himalaya”*** in XI<sup>th</sup> International Geographical Union Commission Seminar organized by the Department of Geography, B. Borooah College, Guwahati, India **on** Environment and Sustainable Livelihood in year 2018.

9. ***“Climate Variability Affecting Rice Productivity in Bihar”*** in XIth International Geographical Union Commission Seminar organized by the Department of Geography, B. Borooah College, Guwahati, India **on Environment and Sustainable Livelihood in 2018.**
10. ***“Climate Variability Impacting Land Use and Land Cover Change in Semi-Arid Region: The Case of Hadoti Region, Rajasthan”*** in XIth International Geographical Union Commission Seminar organized by Department of Geography, B. Borooah College, Guwahati, India **on Environment and Sustainable Livelihood in the year 2018.**
11. ***“The Way Out for Apple: Climatic Perception Versus Instrument Observation”*** in UGC-SAP-DRS III National Seminar organized by the Department of Geography, University of Delhi **on Environment and Resource & Urban and Regional Planning in 2017.**
12. ***“Climate Variability and Land-Use and Land-Cover Change in Temperate River Basin- A Case of Han River Basin, South Korea”*** in an International Seminar organized by Researchers’ Association for the Study of Korea (RASK) **on Act East: Transitions in India’s Engagement with South Korea in the year 2017.**
13. ***“Persistent Increase of Temperature and its Impact of Apple Cultivation: Study of Himachal Himalaya”*** in Asia Oceania Geosciences Society’s 14<sup>th</sup> annual meeting in Singapore **in 2017.**
14. ***“Impact of ENSO on Rice Yield in Bihar, India”*** in Asia Oceania Geosciences Society’s 14<sup>th</sup> annual meeting in Singapore **in 2017.**
15. ***“Ascension of Acclimating Agricultural Condition in Himachal Himalaya”*** in International Geographical Union’s International Conference organized by Osmania University, Hyderabad **on Urbanization, Health & Well Being and Sustainable Development Goals in 2017.**
16. ***“Impact of Climate Change on Phenology of Temperate Wet and Dry Region: A Case of Himachal Himalaya”*** at the International Conference organized by Kalindi College, University of Delhi, on Spatial Decision Support Systems for United Nations Sustainable Development Goals in 2017.
17. ***“Changing Pattern of Temperature & Rainfall and Shifting Apple Orchards to Higher***

*Altitudes in Himachal Pradesh*” in National Conference organized by Swami Sharaddhanand College, University of Delhi on Climate Change Adaptation & Sustainable Development in 2016.

#### **AWARDS / TRAVEL GRANTS**

- ❖ UGC-NET (June 2015) Senior Research Fellowship in year 2018.
- ❖ Travel and other financial support by the Research Council, University of Delhi, in 2017 to attend the AOGS 14<sup>th</sup> Meeting in Singapore.
- ❖ UGC-NET (June 2015) Junior Research Fellowship in year 2015.
- ❖ Merit Certificate from Academy of Geography Teachers, Delhi (Regd.) for securing 69% marks in the Geography Talent Search Examination, 2006-2007.

#### **SESSIONS CHAIRED/CO-CHAIRER/MODERATOR/RAPPORTEUR**

- ❖ Chaired the technical session in the International Hybrid Conference on “**Sustainable Development Goals (SDGs): Challenges and Progress**” held on 14 February 2026, organized by the Department of Geography, Shri Guru Ram Rai University, Dehradun
- ❖ Co-Chaired the technical session titled ‘Migration & Sustainable Livelihood’ in the 2nd Annual Meet of the Geographical Society of Uttarakhand (GSUK) and National Seminar on ‘**Navigating Himalayan Ecology, Environment & Society for Disaster Risk Reduction**’ held on March 22, 2025, organized by the Department of Geography, Hemvati Nandan Bahuguna Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand.
- ❖ Moderated 2<sup>nd</sup> technical session in the national seminar organised by the Department of Sociology, Dr BGR Campus, Pauri, HNB Garhwal University, Uttarakhand, on ‘**Gender Issues: Challenges, Strategies and Solutions**’ from 15<sup>th</sup>-16<sup>th</sup> October 2024.
- ❖ Co-Chaired a sessional titled ‘**Data Challenges, Recent Scientific Advancements in Disaster Studies and Response, Recovery, Resilient Infrastructure and Technological Solutions for Disaster Risk Reduction**’ in the National Seminar on “Disaster Risk Reduction in the Himalayas: Recent Advancements” held on September

20-21, 2024 organized by the CSRD, School of Social Sciences, Jawaharlal Nehru University.

- ❖ Co-Chaired a sessional titled ‘**Climate and Land Use Change: Interlinkages with Disaster**’ in the National Seminar on “Disaster Risk Reduction in the Himalayas: Recent Advancements” held on September 20-21, 2024, organized by the CSRD, School of Social Sciences, Jawaharlal Nehru University.
- ❖ Rapporteur in the technical session of an international seminar on ‘**Envisaging Bharat as Voice of Global South: Revisiting COP28, प्रकृति: रक्षति रक्षितः**’ organized by Department of Geography, Indraprastha College for Women, University of Delhi on 27-28 August 2024.

### INVITED LECTURES/RESOURCE PERSON

- ❖ **Resource Person:** Short-Term Online Course “*Spatial Analytical Tools for Advanced Academic Research*”, Miranda House, University of Delhi – *Session on Urban Heat Island and LST* (5 July 2025).
- ❖ **Resource Person for Workshop** on “*Extreme Events and Their Identification Using MS-Excel*” at **O.P. Jindal Global University**, organised by the **Jindal School of Environment & Sustainability**, on **11 April 2025**
- ❖ **Invited Lecture: Future and Scope of Geography in the Era of AI** at Department of Geography, Shyama Prasad Mukherji College for Women, University of Delhi on February 19, 2025.
- ❖ **Invited Lecture: Understanding Climate Change and Shifting Monsoon Pattern** at Post-Graduate Department of Geography, Fakir Mohan University, Odisha on November 11, 2024.
- ❖ **Invited Lecture: Climate Crisis: A Global Issue** at the Department of Geography, Doon University, Uttarakhand, on October 25, 2024.
- ❖ **Resource Person and Invited Lecture:** 4 days Training and Workshop Programme (September 24 – September 27 2024) on “*Mainstreaming Disaster Risk Reduction and Climate Change Adaptation Measures into Development Programmes*” and delivering the talk on “**Integrating Climate Variability and Monsoon Dynamics into Disaster**

- Risk Reduction Strategies: A Developmental Approach”** at Centre for Climate Change & Life, Central University of South Bihar, Bihar.
- ❖ **Invited Lecture: Oceans at Risk: The Impact of Climate Change on Marine Ecosystems** at the Department of Geography, Kalindi College, University of Delhi on September 19, 2024.
  - ❖ **Invited Lecture: Monsoon Pattern and Climate Change** at Department of Geography, Swami Sharaddhanand College, University of Delhi on September 18, 2024.
  - ❖ **Resource Person: Value Added Course on Satellite Image Processing** at the Department of Geography, Kalindi College, University of Delhi on April 18 and April 19, 2024.
  - ❖ **Invited Lecture: Thermal Remote Sensing and Estimation of Land Surface Temperature Through Satellite Imagery** in the DSKC workshop organized on July 13, 2022, by the Department of Geography, Miranda House College, University of Delhi, India.
  - ❖ **Invited Lecture: Climate Change in Cities and Modelling** in the workshop on Geospatial Analytics and Urban Planning on May 18, 2022, organized by Centre for Geographical Studies, Aryabhata Knowledge University, Patna, Bihar, India.
  - ❖ **Invited Lecture: Climate and Sensitivity of Agriculture in India** on January 29, 2021, organized by HARITHKRAM, Shaheed Bhagat Singh College, University of Delhi, India.

## **ADMINISTRATIVE RESPONSIBILITIES**

- ❖ Member, **Eco-Club Committee** (2024–2025, 2025–2026), Dr. BGR Campus, Hemvati Nandan Bahuguna Garhwal University (Central University), Pauri.
- ❖ Member, **Committee for Promoting Positive Mental Health, Resilience and Well-Being** (2025–2026), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ Member, **Admission Committee for UG/PG Courses** (2024–2025, 2025–2026), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ Member, **Career Counselling Committee** (2024–2025, 2025–2026), Dr. BGR Campus,

HNB Garhwal University (Central University), Pauri.

- ❖ Member, **Committee for deciding parameters of Dr. B. Gopal Reddy Student Excellence Award** (2025–2026), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ Member, **Committee for publication of Annual Magazine “Himbharti”** (2024–2025), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ Member, **Seminar Hall Development Committee**, Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.

### **Student Union Election Duties**

- ❖ **Vote Counting Officer**, Student Union Election (2024–2025), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ **Pooling Officer**, Student Union Election (2024–2025), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.
- ❖ **Presiding Officer**, Student Union Election (2025–2026), Dr. BGR Campus, HNB Garhwal University (Central University), Pauri.

## **TRAINING**

- ❖ **Refresher Course** on *Climate Change, Hydro-Meteorological Extremes and Emerging Solutions*, Malaviya Mission Teacher Training Programme (MM-TTP), [UGC], IIT Kharagpur, 17–29 July 2025.
- ❖ 4-day training & workshop ((September 24 – September 27 2024) on ‘**Mainstreaming Disaster Risk Reduction and Climate Change Adaptation Measures into Development Programmes**’ held at the Centre for Climate Change & Life, Central University of South Bihar
- ❖ 4-week (22 January-20 February 2024) **Faculty Induction/Orientation Programme** for “Faculty in Universities/Colleges/Institutes of Higher Education” with Grade A+, organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

- ❖ Faculty Induction Programme “**Pedagogical Imperatives for Creating Quality Learning Environment for All**”, a capacity-building programme for teachers in higher education organized by the Department of Education, University of Delhi from 01 December 2023- 08 December 2023.
- ❖ Certificate Course (4 Weeks Online) on ‘**Regional Climate Change Projection: Statistical Downscaling Though R**’ organized by The Centre for Built Environment, South Asian Institute for Advanced Research & Development (SAIARD) in association with India Meteorological Department (IMD), Govt. of India, India from December 5-27, 2020.
- ❖ Certificate Course (30 Hours Online) on ‘**Research & Data Analysis**’ organized by Accounting & Finance Lab, Department of Commerce, Ramanujan College, University of Delhi, Delhi, India from June 15-21, 2020.
- ❖ Training Workshop on ‘**Google Earth Engine**’ organized by International Geographical Union at the Department of Geography, Delhi School of Economics, University of Delhi, Delhi, India from 14<sup>th</sup>-15<sup>th</sup> February 2019.
- ❖ The CODATA-RDA ‘**Research Data Science Applied Workshop on Climate Data Sciences**’ was organized by the International Centre for Theoretical Physics (ICTP), Trieste, Italy, on August 20th-24th, 2018.
- ❖ The CODATA-RDA ‘**Research Data Science Summer School**’ was organized by the International Centre for Theoretical Physics (ICTP), Trieste, Italy, on 06<sup>th</sup>-17<sup>th</sup> August 2018.
- ❖ International Training Workshop on ‘**Big Data for Science and Sustainability**’ organized by Osmania University, Hyderabad, India from 17<sup>th</sup>-19<sup>th</sup> March 2017
  
- ❖ **Certificate Course in SPSS (University of Delhi, India)** **November 2016**
- ❖ **Certificate Course in C++ Programming (India)** **September 2016**
- ❖ **Diploma in Computer for Business Applications Delhi Institute for Computer Science (India)** **April 2007 — April 2008**

## **ACHIEVEMENT**

- ❖ **First Position in Inter College Quiz Competition** Event Organized by Awadh Centre of Education, Institute of Vocational Studies (Year 2014)
- ❖ **First Position in Debate** on “Metropolitan Cities of India and Disaster Management” organized by AIFPDM and Supported by The American Center, New Delhi. (Year 2010)
- ❖ **First Position in Inter-College Debate** on “Is Climate Change a Reality?” Organized by Environment Society of Swami Shraddhanand College (Year 2010)
- ❖ **Merit Certificate** for First Position in Group Discussion (2007-2008)
- ❖ **Merit Certificate** in Geography Talent Search Examination (2006-2007) from Academy of Geography Teachers, Delhi (Regd.)
- ❖ **UGC–NET (Qualified for JRF and Assistant Professor) September 2015**

All the information furnished above is accurate to my knowledge and belief.

**Date: 16/02/2026**

**Place: Delhi**

**Dr. Atul Saini**

(Assistant Professor)

Department of Geography (Dr BGR Campus), Pauri 246001

H.N.B. Garhwal University, Uttarakhand, India