DIMRI Ashok Priyadarshan Jul 2022
Director, **Indian Institute of Geomagnetism, Mumbai, India**
Professor (on deputation), School of Environmental Sciences, Jawaharlal Nehru University, New Delhi – 110067, India
Concurrent Faculty, School of Engineering, Jawaharlal Nehru University, New Delhi – 110067, India (2018 -)

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Indian Male Citizen, Married with one daughter and one son
DoB: 14 Nov 1970

Education

- Ph.D., 2004, Atmospheric Sciences, Indian Institute of Technology, New Delhi, India *(Thesis: **Winter Circulation Characteristics and Location Specific Forecast over Western Himalayas)** (Supervisor: Prof. U. C. Mohanty)*
- M.Phil., 1994, Environmental Sciences, Jawaharlal Nehru University, New Delhi, India *(Dissertation: **Radiative Effects of Deserts Aerosols)** (Supervisor: Prof. V. K. Jain)*
- M.Sc.(Tech), 1992, Geophysics, Banaras Hindu University, Varanasi, India *(Dissertation: **Some Studies on the Interaction between Aerosols and Clouds)** (Supervisor: Prof. B. R. D. Gupta)*
- B.Sc.(Hons), 1989, Physics (HONS.), Banaras Hindu University, Varanasi, India

Professional History

- **Director**, Apr 2022 – till date, Indian Institute of Geomagnetism, Mumbai, India
- **Professor,** Dec 2011 – till date, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India – 110067
- **Associate Professor**, Jan 2008 – Dec 2011, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India – 110067
- **Scientist,** Apr 1994 - Jan 2008, Defense Research & Development Organization, Snow & Avalanche Study Estt., Him Parisar, Sector 37A, Chandigarh, India – 160036
- **Researcher**, Sep 2010 – Aug 2012, Hydrospheric Atmospheric Research Center (HyARC), Nagoya University, Nagoya, Japan
- **Guest Scientist**, May - Jul 2013, Meteorological Institute, University of Bonn, Bonn, Germany
- **Visiting Academic**, Sep – Dec 2014, Climate Research Unit (CRU), University of East Anglia, Norwich, UK

Research Interest

- Regional climate dynamics, change and variability
- Climate modeling and numerical modeling
- Statistical and dynamical downscaling of numerical model outputs
- Science of climate and climate change
- Extreme events and their physical understanding
- Indian winter monsoon and Western Disturbances
- Snow and glacier physics/Himalayan climate interaction

Projects Undertaken

National

Ongoing

- **Task Force on 'Himalayan Agriculture (2nd Phase)'**. *National mission for sustaining the Himalayan Ecosystem (NMSHE), Department of Science and Technology, Ministry of Science, Govt of India*, Co-PI with Indian Council of Agriculture Research, India, 2021 - 2026.
- **Pine-Oak Ecosystem: Interactions with Water-Climate-Plant biodiversity**. *National Mission on Himalayan Studies (NMHS), Ministry for Environments Forests and Climate Change (MoEF&CC), Govt of India,* Co-PI with GBPNIHESD, Kosi-Katarmal, Almora, India, 2019 – 2021, INR 2.49 Cr.
- **Permafrost Mapping and Characterization of Western Himalayan Region**. *National Mission on Himalayan Studies (NMHS), Ministry for Environments Forests and Climate Change (MoEF&CC), Govt of India,* Co-PI with National Institute of Hydrology, Roorkee, India, 2019 – 2021, INR 2.49 Cr.
- **Snow and glacier contribution and impact of climate change in Teesta river basin, Eastern Himalaya**. *National Mission on Himalayan Studies (NMHS), Ministry for Environments Forests and Climate Change (MoEF&CC), Govt of India,* Co-PI with National Institute of Hydrology, Roorkee, India, 2019 – 2021, INR 1.43 Cr.
- **Assessment of seasonal variations in Hydrology and Cryosphere of upper Ganga Basin.** *Department of Science and Technology, Govt of India*, 2019 – 2021, INR 12.16 lac.

Completed

- **Integrated hydrological studies for Upper Ganga Basin up to Rishikesh.** *National mission for sustaining the Himalayan Ecosystem (NMSHE), Department of Science and Technology, Ministry of Science, Govt of India,* Co-PI with National Institute of Hydrology, Roorkee, Uttarakhand, 2016 -2021, INR 13.04 Cr.
- **Measurements and modeling of evapotranspiration and other hydrological processes in the lesser Himalayas**. *Ministry of Earth Sciences, Govt. of India,* Co-PI with National Institute of Hydrology, Roorkee, Uttarakhand, 2015 – 2017, INR 94.19 lac.
- **Dynamics of Himalayan Ecosystem and its impact under changing climate scenario in western Himalaya.** *National Mission of Himalayan Studies (NMHS), Ministry for Environments Forests and Climate Change (MoEF&CC), Govt of India,* Lead PI, 2016 – 2019, INR 2.1 Cr.
- **Developing Climate Change Adaptation strategies for Sal and Teak dominated Landscape of Central India**. *India's Third National Communication (TNC) to UNFCCC. Ministry for Environments Forests and Climate Change (MoEF&CC), Govt of India,* Co-PI with Indian Institute of Forest Management, Bhopal, India, 2016 – 2018, INR 20.05 lac.
- **Mass and Energy balance of Phuche and Khardung glaciers, Ladhak range.** *Department of Science and Technology, Ministry of Science, Govt of India,* Co-PI with National Institute of Hydrology, Roorkee, Uttarakhand, 2015 -2020, INR 23.92 lac.
- **On the characterization of winter fog**. *University with Potential for Excellence -II*, Jawaharlal Nehru University, New Delhi, India, 2015 – 2018, INR 11.00 lac.
- **Study of extreme precipitating events (cloudburst) leading to natural hazards and disasters.** *Council of Scientific and Industrial Research, Human Resource Development Group, Extramural Research Division II, Govt. of India,* 2015 – 2018, INR 21.95 lac.

- **Development of Dynamical Mass Balance Model for Gangotri Glacier.** *Department of Science and Technology, Ministry of Science, Govt of India,* Lead PI, 2014 - 2017, INR 23.92 lac.
- **Dendroclimatological Studies over High Altitude Sites of Western Himalaya to Understand the Long-Term Climate Variability in the Context of Recent Climate Change.** *ISRO-GBP Project*, 2009 – 2012, INR 14.9 lac.
- **Snow-Ice and Atmospheric Studies in Antarctica and Its Long Term Impact on Global and Himalayan Climatic System and Development of GIS Based Information Using Automated Scientific Observations and Satellite Remote Sensing.** *Defense Research and Development Organization, Govt. of India,* Aug 2007, INR 8.8 Crores.
- **Role of Regional Processes and Climate Variability in Extended Range-Seasonal Prediction Over the Western Himalayas.** *In collaboration with Centre for Atmospheric Sciences, Indian Institute of Technology, New Delhi, India,* Jul 2007, INR 49.5 lac.
- **Estimation of Quantitative Precipitation and Temperature over different climatic zones of western Himalayas.** *In collaboration with Institute of Armament Technology (Deemed University), Pune, India***.** Apr 2005, INR 9.9 lac.
- **To Study Characteristics of Weather Features and Associated Snowfall and Deterministic Prediction of Quantitative Precipitation.** *In collaboration with Centre for Atmospheric Sciences, Indian Institute of Technology, New Delhi, India*, Jul 2001 - Jul 2003, INR 9.9 lac.
- **To Study the Role of Himalayas in the Deterministic Prediction of Large Scale Weather Pattern over Northwest India with High Resolution Limited Area Model.** *In collaboration with Centre for Atmospheric Sciences, Indian Institute of Technology, New Delhi, India*, Dec 1994 – Dec 1997, INR 7.19 lac.

International
Ongoing

- JSPS funded project **'An interdisciplinary study toward clean air, public health and sustainable agriculture: The case of crop residue burning in North India'**. 2019-2024. 267500 (*1000JPY).
- Joint Indo-Norwegian research and education project on **'Water-related changes in Himalaya'.** UTF-2018-two-year/10020, 2019-2021, 300,000 NOK.
- Joint Indo-Swiss project on **'Strengthening Capacities and Resilience in Climate Adaptation'** (SUDAC – swiss universities development and cooperation network 2nd Call for proposals: COFER).
- Clusters of Cooperation in the Global South (CLOCs): **'Knowledge2Action in South Asia: Environmental Sustainability and Social Wellbeing'** (SUDAC – Swiss universities Development and Cooperation Network Call for Proposals).

Completed

- **Preparing for future mass movements triggered by earthquakes and monsoon events in Indian Himalayan Region (IHR) – learning from the 2015 Nepal event**. *Funded by FLASH program of Switzerland*, Co-PI with University of Fribourg, Switzerland, 2016 -2017, CNF 37150.
- **Adaptation to changing water resources availability in northern India with Himalayan glacier retreat and changing monsoon pattern**. *EU-FP7,* 2009 – 2012, *Project: http://www.eu-highnoon.org/.*

- **Young Scientists Networking Project**, *The UK India Education and Research Initiative (UKIERI)*, 2007.

Honors/Distinctions

- **2022 - Member,** Board of Studies, Dept. of Geophysics, Institute of Science, Banaras Hindu University, Varanasi (02 Jun 2022 – 01 Jun 2024)
- **2022- Member,** India International Center, New Delhi, India
- **2022**– Listed 59th (7204th) in India (World) among the top environmental science scientists. ***(****https://research.com/scientists-rankings/environmental-sciences/in**).*
- **2022–** Awarded with **'2022 Grove Karl Gilbert Award for Excellence in Geomorphological Research'** of the Geomorphology Specialty Group (GSG) of the American Association of Geographers for his publication "A massive rock and ice avalanche caused the 2021 disaster at Chamoli, Indian Himalaya" in journal Science.
- **2021- Committee Member**, School of Climate Change and Sustainability, Institute of Eminence, Delhi University, India
- **2021- Fellow (Elected)**, The National Academy of Sciences, India (NASI), Prayagraj
- **2020– 4th in the list of Top 2% Scientists** from India in Climate Sciences, 2019, - published by Stanford University *(The list is based on standardized citation indications and include information such as the number of citations, authorship and a composite indicator. Link to the publication and the data (Table S7 for 2019): https://doi.org/10.1371/journal.pbio.3000384).*
- **2020- Leadership for Academicians Programme (LEAP)** (08-19 Mar 2020), at INSA by Delhi University, New Delhi
- **2020- WCRP Regional Focal Point (RFP)** for Asia and Oceania
- **2017- Co-ordinator:** Upper Indus Basin Network- India Chapter
- **2017- Shiksha Ratan Award** (UPES, Dehradun)
- **2014-2016 – Council Member (Elected)**, Indian Geophysical Union (IGU)
- **2014-2016 – Council Member (Elected)**, Indian Meteorological Society (IMS)
- **2014- 2022 - Associate Member,** India International Center, New Delhi, India
- **2014- Associate Fellow,** Climate Research Unit (CRU), University of East Anglia, Norwich, United Kingdom
- **2014- Fellow**, Commonwealth Commission United Kingdom
- **2014-2015 - Commonwealth Academic Fellowship** (funded by Commonwealth Scholarship Commission in The United Kingdom)
- **2013- Guest Scientist**, DAAD, May – Jul 2013
- **2010- Fellow**, Japan Society for the Promotion of Science (JSPS) (2010 – 2012)
- **2008- Fellow**, Indian Geophysical Union (IGU)
- **2003-2009 - Associate (Junior),** International Center for Theoretical Physics (ICTP), Trieste, Italy
- **2006- Technology Award,** Defense Research and Development Organization, Govt. of India
- **1995- Siachen medal**, Ministry of Defense, Govt. of India
- *2003- Recommended Young Scientist Award 2003*, Defense Research and Development Organization, Govt. of India
- *2004- Best paper presentation award*, "International Symposium on Snow Monitoring and Avalanches (ISSMA)" organized by Snow and Avalanche Study Estt., Manali from 12-16 Apr 2004

- *2000- Best paper presentation award,* Scientific and Engineering Research Council (SERC), Department of Science and Technology (DST), Govt. of India, school on "Cloud Physics and Atmospheric Electricity – Fundamentals" organized at Indian Institute of Tropical Meteorology, Pune, India, from 13 Jun – 14 Jul 2000
- *1993-94 - Elected Councilor, Student Representative,* School of Environmental Sciences, Jawaharlal Nehru University, New Delhi
- *1992- Junior Research Fellow/Senior Research Fellow (JRF/SRF),* Jawaharlal Nehru University, New Delhi – University Grant Commission National Test for Fellowship
- *1991- National Eligibility Test (NET) Junior Research Fellow (JRF) cum lectureship*, University Grant Commission – Council of Scientific and Industrial Research (UGC-CSIR)
- *1991-92 - Student Fellowship,* M.Sc. (Tech) III year, University Grant Commission, Govt. of India

Member(s)

- Member, Groundwater Consultant Organization – Accreditation Committee, National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI)
- Member (Life), European Geosciences Union (EGU)
- Member (Life), American Geophysical Union (AGU)
- Member (Life), Indian Meteorological Society (IMS)
- Member, Asia Oceania Geosciences Society (AOGS) (2009 – 2014)
- **Member,** NATIONAL COMMITTEE FOR INTERNATIONAL UNION OF GEODESY AND GEOPHYSICS (IUGG) AND INTERNATIONAL GEOGRAPHICAL UNION (IGU) (www.iugg.org and www.igu-net.org) (INSA nominated), (2016 –)
- **Member**, Program Advisory Committee (PAC) of the Environment and Climate domain of IMPRINT-2, Dept. of Science and Technology, Govt. of India.
- **National Convenor**-IGC2020. Earth Observation System – Climate Variables, Proxies and Modelling
- Member, Working Group, National Institute of Hydrology, Roorkee, India (2017 -)
- Member, JNU Delegation to visit University of Massachusetts, Amherst to deliberate of strategic partnership between the two universities
- Member, **Global Technology Watch Group (GTWG) for Water sector** under GTWG project supported by Dept. of Science & Technology, Govt. of India
- Member, Academic Council, Raman Research Institute (RRI), Bangalore, India
- Member, Academic Council, National Defense Academy (NDA), Pune, India
- Member, Academic Council, Lal Bahadur Shastri National Administrative Academy (LBSNAA), Mussoorie, India
- Member, Indian Science Congress Association
- Member, **C.S.I.R.'s Screening Committee of Earth Sciences for selection of SRF/RA** (2009 -)
- Member, **C.S.I.R.'s committee on National Eligibility Test (NET) formulation and evaluation** (2008 -)
- Member, Working Group –III Modeling, Assimilation and Data Management for conducting Forecast Demonstration Project on **"Nowcast system for Commonwealth Games 2010 New Delhi (CWG2010)", Govt of India**
- Member, Implementation of **"Fog Forecasting System"** during winter at Indian Airports, **Govt. of India**

- Member, Defense Research and Development Organization "Project Monitoring and Review Committee (PMRC): PARWAT CENTRAL"
- Member, Defense Research and Development Organization “Mountain Meteorology Project: PARWAT” – a joint collaborative project between India Meteorological Department (IMD), National Center for Medium Range Weather Forecast (NCMRWF), Indian Army and Defense Research and Development Organization
- Expert, 3rd Uttarakhand State Science and Technology Congress 2008
- Resource Person, International Human Dimension Programme (IHDP) of Global Environment Change on “Sustainable Adaptation on Climate Change”, at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, 11 – 18 Oct 2008

Visits in National/International Institutes

- Hokkaido Univ., Sapporo and Nagoya Univ., Nagoya, Japan, Aug-Sep 2019.
- International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, Aug 2019.
- University of Bergen, Bergen, Norway, Jun 2019
- Univ. of Hamburg, Germany, Feb 2019.
- Univ. of Zurich, Switzerland, Feb 2019.
- Bjerknes Centre for Climate Research, Bergen, Norway, May 2018.
- University of Bergen, Bergen, Norway, May 2018.
- Hainan University, Haikou, China, Jan 2017.
- Swedish Meteorological and Hydrological Institute (SMHI), Stockholm, Sweden, May 2016.
- University of Massachusetts, Amherst, US, Jun 2015.
- Climate Research Unit (CRU), University of East Anglia, Norwich, UK, Sep – Dec 2014.
- Institute of Mathematical Sciences, Chennai, India, Mar 2014, Feb 2015.
- International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, Sep 2013.
- Meteorological Institute, University of Bonn, Bonn, Germany, May- Jul 2013.
- Sun Yat-Sen University, Guangzhou, China, Apr 2012.
- University of California, Berkeley, US, Dec 2011.
- Wageningen University, Wageningen, The Netherlands, Nov 2011.
- International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, Aug 2011.
- Research Institute for Global Change (RIGC), Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama, Japan, Feb 2011.
- Nagoya University, Japan (Sep 2010 – Aug 2012).
- The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy (Aug – Oct 2009; Jul – Sep 2006; Aug – Oct 2004).
- University of East Anglia, Norwich, UK, Jan 2009.
- Physical Research Laboratory, Ahmadabad, India, May 2007.
- Center for Atmospheric and Oceanic Sciences, Indian Institute of Sciences, Bangalore, India, Jul 2005.
- Institut d’Astronomie et de Geophysique Georges Lemaitre, Universite Catholique de Louvain, Louvain-la-Neuve, Belgium, Oct 2004.

- Swiss Federal Institute for Snow and Avalanche Research, Davosdorf, Switzerland, Oct 2004.
- University of Trento, Trento, Italy, Aug 2003

Editor: Frontiers in Environmental Science (Sep 2021 -); PLOS Climate (May 2021 -); Scientific Reports (Aug 2019 -); Theoretical and Applied Climatology (Mar 2019 -); PLOS ONE (Feb 2019 -); Meteorology and Atmospheric Physics (Feb 2016 – Dec 2020)

Guest Associate Editor: Frontiers in Earth Science: Interdisciplinary Climate Studies: **Himalayan Climate Interactions** (https://www.frontiersin.org/research-topics/6834/himalayan-climate-interactions).

Managing Guest Editor: Science of the total Environment: Virtual Special Issue on **Upper Indus Basin: Perspective for Future** (https://www.sciencedirect.com/journal/science-of-the-total-environment/special-issue/10WPQRZZZ5S).

Reviewer

Nature Climate and Atmosphere, Monthly Weather Review, Remote Sensing of Environment, Journal of Climate, Quarterly Journal of the Royal Meteorological Society, Journal of Geophysical Research-Atmospheres, Atmospheric Chemistry and Physics, The Holocene, Climate Dynamics, Science of Total Environment, International Journal of Climatology, Journal of Hydrology, Pure and Applied Geophysics, Hydrological Research Letters, Theoretical and Applied Climatology, Water Resource Research, Advances in Meteorology, Meteorology and Atmospheric Physics, Atmosfera, Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Earth Interactions, Modeling Earth Systems and Environment, Natural Hazards, Remote Sensing Letters, PLoS One, Atmospheric Environment, International Journal of Remote Sensing, Global and Planetary Change, Weather and Climate Extremes, Advance in Climate Change Research, Dynamics of Atmospheres and Oceans, Journal of Earth System Science, Current Science, Mausam, Annals of Glaciology, American Journal of Climate Change, Research Journal of Earth and Planetary Sciences, Geomatics, Natural Hazards and Risk, Journal of Earth Science and Climate Change, International Journal of Environmental Science and Technology, Atmospheric Research, Meteorological Applications, Journal of Atmospheric and Solar-Terrestrial Physics, Advances in Meteorology, Geophysical Research Letter, Biogeosciences, Scientific Reports, PALAEO3, Environmental Processes, Earth and Space Science, Weather and Climate Extremes, Weather and Forecasting

Collaborations and Mentoring

U.C. Mohanty (IIT, Bhuvneshwar, Orissa, India), F. Giorgi (ICTP, Trieste, Italy), L.S. Rathore (IMD, Delhi, India), S. K. Dash (IIT, Delhi, India), T. Yasunari (Nagoya University, Nagoya, Japan), D. Niyogi (Purdue University, US), D. R. Sikka (Ex-Director, IITM, Pune, India), P. Kumar (Max-Planck Institute for Meteorology, Humburg, Germany), S. Das (NCMRWF, Noida, India), C. Simmer (Meteorological Institute, Univ. of Bonn, Germany), R. K. Yadav (Indian Institute of Tropical Meteorology, Pune, Maharastra, India), R. Shankar (Institute of Mathematical Sciences, Chennai, Tamilnadu, India), Argha Banerjee (Indian Institute of Science and Education Research, Kolkata, West Bengal, India), Clare Goodess (CRU, Norwich), Phil Jones (CRU, Norwich), R. J. Thayyen (National Institute of Hydrology, Roorkee, India), Subimal Ghosh (IIT Mumbai), S. Chakraborty (GBPNIHE, Kosi-Katarmal)

List of Publications

Total Publication: 178 *(As on Jul 2022 in Google scholar)*
Total Citations: 4108
h-index: 37
i10-index: 92

(a) Book(s)

1. **Himalayan Weather and Climate and their impact on the environment (**Eds., A. P. Dimri, B. Bookhagen, M. Stoffel and T. Yasunari), Springer Nature Switzerland AG 2020, Springer Cham, 577pp. https://doi.org/10.1007/978-3-030-29684-1 (Print ISBN 78-3-030-29683-4, Online ISBN 978-3-030-29684-1).
2. **Western Disturbances-An Indian Meteorological Perspective** (A. P. Dimri and A. Chevuturi), Springer International Publishing Switzerland 2016, Springer Cham, 131pp. https://doi.org/10.1007/978-3-319-26737-1 (Print ISBN 978-3-319-26735-7, Online ISBN 978-3-319-26737-1).

(b) Review Paper(s)

11. **A. P. Dimri**, M. Roxy, A. Sharma, A. Pokharia, Ch. R. Gayatri, J. Sanwal, Aka Sharma, S. K. Tandon and U. C. Mohanty. Monsoon in History and present. ***J. of Palaeosciences,*** 2022. *(accepted).*
10. M. Shekhar, A. Sharma, **A. P. Dimri** and S. K. Tandon. Asian Summer Monsoon: Variability, global teleconnections and dynamics during the last 1,000 years. ***ESR,*** 2022. https://doi.org/10.1016/j.earscirev.2022.104041.
9. K. Ray, P. Pandey, C. Pandey, **A. P. Dimri** and K. Kishore. On the recent floods in India. ***Current Science***, 25 July 2019, Vol. 117, No. 2. [IF= 1.102; CI=32]
8. I. Gultepe, R. Sharman, P. D. Williams, B. Zhou, G. Ellrod, P. Minnis, S. Trier, S. Griffin, S. S. Yum, B. Gharabaghi, W. Feltz, M. Temimi, Z. Pu, L. N. Storer, P. Kneringer, M. J. Weston, H. Chuang, L. Thobois, **A. P. Dimri**, S. Dietz, G. B. Franca, A. V. Valdonel. A Review of High Impact Weather on Aviation Meteorology. ***PAGEOPH***, *2019*, 176 2019, 1869–1921, https://doi.org/10.1007/s00024-019-02168-6. [IF=2.119; CI=74]
7. Shruti Singh, Rajesh Kumar and **A. P. Dimri**. Mass Balance Status of Indian Himalayan Glaciers: A brief review. ***Frontiers in Environmental Science - Interdisciplinary Climate Studies - Research Topic: Himalayan Climate Interactions***, 21 August 2018, 6:30. doi: 10.3389/fenvs.2018.00030. [IF=4.581; CI=4]
6. R. M. Devi, M. K. Patasaraiya, B. Sinha, S. Saran, **A. P. Dimri** and R. Jaiswal. Scientific Approaches in Understanding the Linkages between Climate Change and Forest: A review. ***Current Science***, 10 March 2018, Vol. 114, No. 5. [IF=1.102; CI=9]
5. S. K. Jain, P. Mani, S. K. Jain, P. Prakash, V. P. Singh, S. Kumar, S. P. Agarwal, and **A. P. Dimri**. A Review of Flood Forecasting Techniques and Applications. ***The International Journal of River Basin Management.*** [IF=2.20; CI=67] https://doi.org/10.1080/15715124.2017.1411920.
4. **A. P. Dimri**, A. Chevuturi, D. Niyogi, R. J. Thayyen, K. Ray, S. N. Tripathi, A. K. Pandey and U. C. Mohanty. Cloudbursts in Indian Himalayas: A Review. ***Earth-Science Reviews***, 2017, 168, 1–23. [IF=12.413; CI=57]
3. **A. P. Dimri**, T. Yasunari, B. S. Kotlia, U.C. Mohanty and D. R. Sikka. Indian Winter Monsoon: Present and Past. ***Earth-Science Reviews***, 2016, 163, 297–322. [IF=12.413; CI=57]
2. **A. P. Dimri**, R. J. Thayyen, K. Kibler, A. Stanton, D. Tullos and V. P. Singh. A review of atmospheric and land surface processes with emphasis on flood generation along the

southern rim of the Himalayas. ***Science of Total Environment***, 2016, 556, 98 – 115. [IF=7.963; CI=37]

1. **A. P. Dimri**, D. Niyogi, A. P. Barros, J. Ridley, U. C. Mohanty, T. Yasunari and D. R. Sikka. Western Disturbance: A Review. ***Reviews of Geophysics***, 2015, 53, DOI:10.1002/2014RG000460. [IF=21.449; CI=223]

(c) Publication in reviewed and referred international/national journal(s)

2022

178. A. Shikha, **A. P. Dimri**, K. K. Singh, P. Maharana and U. Mina. Risk assessments and adaptation strategies for irrigated and rainfed cotton crop production under climate change. ***JESS.*** [IF= ; CI=0] *(accepted).*
177. Bramha Dutt Vishwakarma, RAAJ Ramsankaran, Mohd. Farooq Azam, Tobias Bolch, Arindan Mandal, Smriti Srivastava, Pankaj Kumar, Rakesh Sahu, Perumal Jayaraman Navinkumar, Srinivasa Rao Tanniru, Aaquib Javed, Mohd Soheb, **A. P. Dimri**, Mohit Yadav, Balaji Devaraju, Pennan Chinnasamy, Manne Janga Reddy, Geetha Priya Murugesan, Manohar Arora, Sharad K Jain, Chandra Ojha, Stephan Harrison and Jonathan L Bamber. Challenges in understanding the variability of the cryosphere in the Himalayas and its impact on the regional water resources. ***Frontiers in Water, section Water and Climate, 2022.*** [IF= ; CI=0] *(accepted).*
176. **A. P. Dimri**, M. Roxy, A. Sharma, A. Pokharia, Ch. R. Gayatri, J. Sanwal, Aka Sharma, S. K. Tandon and U. C. Mohanty. Monsoon in History and present. ***J. of Palaeosciences,*** 2022. [IF= ; CI=0] *(accepted).*
175. V. K. Buri, A. M. Jose, K. R. Kundeti, K. Osuri, R. Bhaduri and **A. P. Dimri.** Future precipitation extremes over base Himalayan Uttarakhand Region: Analysis using the statistically downscaled, bias-corrected high-resolution NEX-GDDP datasets. ***TAAC,*** 2022. https://doi.org/10.1007/s00704-022-04111-7. [IF= ; CI=0] *(accepted).*
174. M. Shekhar, A. Sharma, **A. P. Dimri** and S. K. Tandon. Asian Summer Monsoon: Variability, global teleconnections and dynamics during the last 1,000 years. ***ESR,*** 2022. https://doi.org/10.1016/j.earscirev.2022.104041. [IF= ; CI=0]
173. A. Orr, B. Ahmad, U. Alam, A. N. Appadurai, Z. P. Bharucha, H. Biemans, T. Bolch, N. P. Chaulagain, S. Dhaubanjar, **A. P. Dimri**, H. Dixon, H. Fowler, G. Goli, S. J. Halvorson, A. Hussain, G. Jeelani, S. Kamal, I. Khalid, S. Liu, A. Lutz, S. Mal, M. K. Mehra, E. Miles, A. Momblanch, V. Muccione, A. Mukherji, D. Mustafa, O. Najmuddin, M. N. Nasimi, M. Nuesser, V. P. Pandey, S. Parveen, F. Pellicciotti, C. Pollino, E. Potter, M. R. Qazizada, S. Ray, S. Romshoo, S. K. Sarkar, A. Sawas, S. Sen, A. Shah, A. Shah, J. Shea, A. T. Sheik, A. B. Shrestha, S. Tayal, S. Tigala, Z. T. Virk, P. Webster and J. Wescoat. Knowledge Priorities on Climate Change and Water in the Upper Indus Basin: A Horizon Scanning Exercise to Identify the Top 100 Questions in social and natural sciences. ***Earth's Future***, 2022. 10.1029/2021EF002619. [IF= ; CI=0]
172. P. Maharana, D. Kumar, Rajesh Kumar, Rupendra Singh and **A. P. Dimri**. Diagnostic of the Massive Flood Event and Flood hazard mapping in Tons River Basin. ***TAAC,*** 2022. https://doi.org/10.1007/s00704-022-04008-5. [IF= ; CI=0]
171. **A. P. Dimri**, E. Palazzi and A. S. Daloz. Elevation dependent precipitation and temperature changes over Indian Himalayan region. ***Clim. Dyna.,*** 2022. https://doi.org/10.1007/s00382-021-06113-z. [IF= 4.375; CI=0]
170. D. Kumar, P. Maharana, P. Rai, P. R. Tiwari and **A. P. Dimri**. Simulation of Northeast Monsoon in a coupled regional model framework. ***Atmospheric Research,*** 2022. https://doi.org/10.1016/j.atmosres.2021.105960. [IF= 5.369; CI= 0]

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A. P. Dimri. Climate Change of Cold arid region systems and Future Projections, Climate Change, Cryosphere, Habitat and Changing Livelihood Pattern of Ladhak Region: An interdisciplinary approach towards Developing Adaptive strategies at Leh, 17 - 26 Sep 2013 (as a ***Resource Person***).

A. P. Dimri. Workshop on Health Impacts of air quality and Climate in Asia, Sun Yat-Sen University, Guangzhou, China, 09-11 Apr 2012.

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A. P. Dimri. Eight expert group meeting for the coordinated program on "Bio-Geo database and Ecological Modeling for the Himalayas- Uttaranchal transect", Center for Social Rural Development, Jawaharlal Nehru University, New Delhi. 18-19 Feb 2008.

A. P. Dimri. NCMRWF's 2nd annual workshop on 'Model performance for 2007 weather systems'. National Centre for Medium range Weather Forecasting (NCMRWF), NOIDA, India. 31 Jan - 01 Feb 2008.

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Invited Talks

- 'Climate Change and Extremes in the Himalayas', JNCASR, Bangalore, 6 Jun 2022.
- **Resource Person, '**Environment Sustainability and Climate Change', Interdisciplinary Faculty Development Programme, Hansraj-Miranda College, 4-8 Apr 2022.
- **Chair**, Plenary Session, 'Climate Change, Natural Hazards and Sustainable Livelihoods', JNU-DU, 13 Mar 2022.
- 'Measure of sustainable use of wetlands', One day webinar on World Wetlands Days 2022, Amar Singh College, Cluster University, Srinagar, J&K, 2 Feb 2022.
- 'Climate Change', Faculty Induction Program-VII, HRDC JNU, New Delhi, 19 Jan 2022.
- 'Observed changes and future climate projections over Indian region', National Institute of Hydrology, Roorkee, Uttarakhand, 15 Oct 2021.
- 'Atmospheric Sciences', 3rd Refresher Course in Geography, HRDC-JNU, New Delhi, 21 Oct 2021.
- Hydrological Budget of three Himalayan Basins. Indo-German Workshop on Water Availability and Quality Under Varying Environmental and Urban Conditions. Virtual Online. 22 – 23 Oct 2021.
- Invited talk on Himalayan Diwas, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, 09 Sep 2021.
- 'Climate Change', HRDC, Pondicherry, 26 Aug 2021.
- Invited Speaker, 'Climate over the Himalayas', UNIZULU'S 60th year celebration by participating in the "Earth and Environmental Sciences International Webinar Conference" jointly hosted by University of Zululand and Chang'an University, China, 02 Feb 2021.
- Invited Resource Person, 'Climate Modelling: Climate over the Himalayas', Kashmir University, Srinagar, Jammu and Kashmir, India, 27 – 29 Jan 2021.
- Invitation to a talk within the lecture series "Understanding the Dynamics of the Natural Hazards in the Himalayas" a lecture on **"Climate of the Himalayas",** Co-PREPARE, Collaborative Indo-German PRoject on Estimating and Predicting Natural Hazards in the Himalayan Region, 22 Jan 2021.
- Invited Speaker, 'Climate over the Himalayas', GNDU Amritsar, India, 26 Dec 2020.
- **Invited Talk** in the International Conference on Aerosol Air Quality, Climate Change, and Impact on Water Resources and Livelihoods in the Greater Himalayas, ARIES Nainital, 9 -11th Sept 2020.
- Demystifying WDs and their linkages to Climate Change. WEIGH workshop, IIT Mumbai and Univ. of Bristol, 7 – 11 Sep 2020.
- **Invited talk** on 'Climate change impacts on Himalayas'. TERI-NORCE research school on Towards data science in climate research: perspectives on Climate Extremes'. The Energy & Resources Institute, India Habitat Center, Lodhi Road, New Delhi, India, 15 – 18 Oct 2019.

- Plenary Speaker Jammu and Kashmir Science Congress 2018, 'Climate scenarios over the Himalayas', Kashmir University, 4 Apr 2018.
- Lead talk on 'Himalaya' in UCOST 2018, Vigyan Dham, UCOST, Dehradoon, India, 7 – 9 Mar 2018.
- Invited talk on 'Monsoon in Changing Climate', in INDO-UK (DST-UKIERI) Workshop Bio-Climate Feedbacks of Meetings Himalayan Ice Research Workshop and Planning Meetings, JNU New Delhi, India, 20 -21 Sep 2017.
- Lead Talk on 'Himalayan Climate: Present and Future', in International Conference on 'The rational Utilization of the water Resources of the International Rivers in China and South Asia: A Pathway to Disputes Settlement', Organized by Guangdong Institute for Indo-Pacific Peace and Development Studies, Hainan University, Haikou, China, 11 – 13 Jan 2017.
- Lead talk on 'Floods in the southern rim of the Himalayas', TROPMET-2016, Indian Meteorological Society, Bhubaneswar, Orissa, 18 -21 Dec 2016.
- Key note address on 'Dynamical Understanding of Natural Hazards over Southern rim of the Himalayas', in National Geo-Research Scholars Meet 2016, Wadia Institute of Himalayan Geology, Dehradoon, India, 1 – 4 Jun 2016.
- 'Himalayan Climate: Present and Future', International Conference on Global Environment Change in the Himalayan Region: Controversies, Impacts, Futures, Organized by Heidelberg Center South Asia, India, 6 – 8 Nov 2015.
- 'Comparison of Climatic trends and variability among glacierized environments in the western Himalayas', Conference on Climate Change, Glaciers and Hydroelectricity in South Asia, Comprehensive Security Dialogue (CSD) 2015, Organized by Hans Seidel Foundation, India at Colombo, Srilanka, 5 – 6 Nov 2015.
- 'Climate Change and Impacts over the Himalayas', International Workshop on Climate Change and Impact and Adaptation in Himalaya: Science and Policy Interference, Organized by DST and IHCAP at Kumaon University, Nainital, India, 2 – 3 Nov 2015.
- 'Impact on Himalayan climate: Recent and Future', Workshop on Climate change Projections, Impacts, Vulnerability and Adaptation under the aegis of Third National Communication, Organized by Ministry of Environment, Forest and Climate Change, Govt. of India, 28 – 29 Oct 2015.
- 'Himalayan Cryosphere and its role in defining Indian weather', International conference on Science & Geopolitics of Artic-Antarctic-Himalaya, Organized by Lights Research Foundation, New Delhi, India, 29 -30 Sep 2015.
- Deliberated in National workshop on 'Exploring Social sciences tools in teaching disaster research', JNU, New Delhi, India, 21 Sep 2015.
- 'Extremes in southern rim of the Himalayas', in GLACINDIA Stakeholder Workshop on Identifying Climate Change Information Needs and Training on Climate Modeling and Climate Change Research, Innovation and Services, Organized by The Research Council of Norway, Federal Ministry of Education and Research, Germany and DST, GoI, 08 – 10 Apr 2015.
- 'Atmospheric processes leading to extreme flood events', in workshop Modeling and Managing Flood Risk in Mountain Areas at Sacramento, California, Organized under **Indo – US Science and Technology Forum (IUSSTF)**, 17 – 19 Feb 2015.
- 'Climate Change as a driver of change', Hindukush Himalayan Monitoring and Assessment Program (HIMAP), Organized by ICIMOD, Nepal, Thimpu, Bhutan, 4 - 6 Feb 2015.
- 'Role of the Himalayas in defining Indian weather and climate', **Climate Research Unit (CRU), University of East Anglia, Norwich, UK,** 27 Nov 2014.

- 'Atmospheric processes associated with disasters in and around southern rim of the Himalayas', **National Institute of Hydrology, Roorkee, Uttarakhand, India,** 10 Sep 2014.
- 'Role of the Himalayas in defining Indian weather and climate', **Institute of Mathematical Sciences, Chennai, India**, 27 Mar 2014.
- 'Regional Climate Models', Department of Zoology and Environmental Science Gurukula Kangri University, Haridwar 249 404, Uttarakhand, India, 21 Feb 2014.
- **Key note speaker** 'Role of Himalayas in defining Indian weather and climate', National Conference on Climate Change and social vulnerability Assessment, HNB Garhwal Central University, Srinagar-Garhwal, 19- 20 Feb 2014.
- Silver Jubilee International Conference on **"Prediction of weather and climate systems seamlessly",** National Center for Medium Range Weather Forecasting, Ministry of Earth Sciences, 17 – 19 Feb 2014.
- 'Numerical simulation of hail storm event over Delhi, India on 28 Mar 2013'. 50th Annual Convention and meeting of "Sustainability of Earth System- The Future Challenge" Organized by Indian Geophysical Union, at National Geophysical Research Institute, Hyderabad, India, 08 – 12 Jan 2014.
- **Key note speaker** of National Science Center, New Delhi, India during "Year of Mathematics of Planet Earth", 17 Dec 2013.
- 'Numerical modeling for climate studies', Indian Institute for Remote Sensing, Dehradun, Uttarakhand, India, 08 Nov 2013.
- 'Role of the Himalayas in defining Indian weather and climate', **Meteorological Institute, University of Bonn, Bonn**, Germany, 10 Jun 2013 (http://www.geomet.uni-koeln.de/allgemein/studium/kolloquium/).
- 'On defining Indian winter Monsoon', Science Day, Jawaharlal Nehru University, New Delhi, 110067, India, 28 Feb 2013.
- 'Uncertainties in Regional Climate Models', **International Humboldt Kolleg**, Jawaharlal Nehru University, New Delhi, 110067, India, 08-09 Feb 2013.
- 'Role of fine scale land surface representation on the wintertime climatic simulations over the western Himalayas', **AOGS2011**, Taipei, Taiwan, 08 – 12 Aug 2011.
- 'Changing Climate over the Himalayas', Doon University, Dehradun, India, 04 May 2011.
- 'Role of Topography in defining Weather and Climate', Science Dialogue in Kakegawanishi High School, Kakegawa, Japan, 08 Mar 2011.
- 'Wintertime Studies over the Western Himalayas', Research Institute for Global Change (RIGC), **Japan Agency for Marine-Earth Science and Technology (*JAMSTEC*), Yokohama, Japan**, 16 Feb 2011.
- 'Wintertime climate analysis over the western Himalayas', Workshop on Climate Science and Emerging Issues in Asia, Indian Institute of Technology, New Delhi, India – 110016, 02 Jul 2010.
- 'HPC in weather and climate', National Symposium on "High Performance computing in Academia and Beyond", Organized by C-DAC Pune and BESU, Kolkata, 04 Mar 2010.
- 'Climate Change and Glaciers', ENVIS Seminar on Changing Environment and its Impact on Development & Evaluation Workshop at G. B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, Uttarakhand, India, 23 – 24 Mar 2009.
- 'Large scale global forcing and climate modeling: Outstanding Issues', Science Day Festival 2009, Jawaharlal Nehru University, New Delhi, India, 27 – 28 Feb 2009.

- 'Climate extremes over the Western Himalayas', Geomatics – 2009: National Conference on Geomatics and Impact of Climate Change with Specific reference to Mountain Ecosystem and Annual Convention of Indian Society of Geomatics, Forest Research Institute, Dehradun, India, 04 -06 Feb 2009.
- 'Climate Extremes over the western Himalayas', **UK-India workshop on 'Downscaling and linking to applications'** University of East Anglia, Norwich, UK, 26 - 30 Jan 2009.
- 'Climate Modeling', Academic Staff College, Jawaharlal Nehru University, New Delhi, India, 19 Nov 2008.
- 'Relationship between ENSO phases and Wintertime Precipitation over the western Himalayas', International Workshop on **"Environmental Conservation for Sustainable Livelihood in the Cold Desert Region of Asia" (Organized by UN university, Tokyo, Japan and Jawaharlal Nehru University, New Delhi)**, Solan, India, 15 – 17 Oct 2008.
- 'Government initiative and National, International conventions for climate change: Summits/Conferences/protocols etc.' in ToT program on Climate Change and Disaster Management, National Institute of Disaster Management, New Delhi, India, 28 - 02 May 2008.
- 'Climate Variability over Western Himalayas in winter' workshop on security implications of climate change for Indian, Institute for defense Studies and Analyses (IDSA), New Delhi, India, 16 Apr 2008.
- 'Study of Regional Precipitation and Temperature Variability using Regional Climate Model (RegCM3) and Climate Change over Western Himalayas', Department of Science and Technology sponsored Sixth Training Course on Glaciology (Organized by Glaciological Division of Geological Survey of India), Manali, India, 04 Sep 2007.
- 'Variability of Weather Parameters over the Western Himalayas: A Case Study', ISRO - Geosphere Biosphere workshop on High Resolution Monsoon Reconstruction Since The Last Glacial Maximum (~20000yrs) (Organized by Physical Research Laboratory, Ahmadabad and Dept of Marine Geology &Geophysics, Cochin University), Cochin, India, 20 – 21 Jul 2007.
- 'Development of Mountain Meteorology in the Himalayas,' at Air Force Academic College (AFAC), Coimbatore, India, Apr 2007.
- 'Mathematical Modeling of Real World Systems', International Congress and 8th Conference of ISIAM on Certain Emerging Areas in Applicable Mathematics, Jammu, India, 20 Mar - 03 Apr 2007.
- Technology day oration on 'Wintertime Seasonal Scale Simulation Over Western Himalayas using RegCM3' at Snow and Avalanche Study Establishment, Chandigarh, India, 11 May 2006.
- 'Statistical Techniques for Restoring non-linearities in Atmospheric Process', Continuing Education Program (CEP) of Defense Research and Development Organization on Computational Techniques and its Applications, Institute of Armament Technology, Girinagar, Pune, India, 26 - 30 Dec 2005.
- 'Operational Mountain Weather Forecast' at **Center for Atmospheric and Oceanic Sciences, Indian Institute of Sciences, Bangalore, India**, Jul 2005.
- 'Complexities of Mesoscale Weather Processes and their Prediction over the Himalayas', **Institut d'Astronomie et de Geophysique Georges Lemaitre, Universite Catholique de Louvain, Louvain-la-Neuve, Belgium**, 15 Oct 2004.
- 'Western Disturbances', Uttaranchal – Participation of youth in Real-time/field Observations to Benefit Education (U-PROBE): A Pilot Experiment in 100 Schools of

Uttaranchal – a Department of Science and Technology (DST – GoI) initiative in science education, CAS, IITD, New Delhi, India, 14 Jul 2004.

News and public discourse

- https://theprint.in/environment/delhi-air-clean-in-lockdown-but-high-pollution-seen-for-few-hours-after-dawn-jnu-du-study/477866/
- https://www.youtube.com/watch?v=nKctU0Spcm8
- https://weather.com/en-IN/india/science/news/2018-12-07-western-disturbances-kedarnath-floods
- https://www.business-standard.com/article/current-affairs/himalayas-facing-climate-change-crisis-at-greater-risk-of-catastrophes-118101200095_1.html
- https://www.downtoearth.org.in/news/agriculture/early-sowing-can-increase-cotton-yield-study-61688
- https://indianexpress.com/article/india/lesser-snow-as-it-gets-hotter-in-the-himalayas-experts-5050608/
- http://www.indiaspend.com/in-the-himalayas-living-the-crisis-that-the-ipcc-report-warns-of/
- https://www.thehindubusinessline.com/news/science/odd-even-scheme-had-little-impact-on-air-pollution-study/article24706635.ece
- https://www.firstpost.com/tech/science/study-finds-odd-even-scheme-ineffective-in-curbing-delhis-air-pollution-4982631.html
- http://www.dnaindia.com/delhi/report-pollution-due-to-stubble-burning-odd-even-won-t-help-jnu-study-2559230
- http://www.dnaindia.com/india/report-north-east-to-get-drier-in-future-study-reveals-2535635
- http://e360.yale.edu/features/unnatural_disaster_how_global_warming_helped_cause_indias_catastrophic_flood
- https://www.greenbiz.com/article/link-between-global-warming-and-indias-worst-flood
- https://www.sbs.com.au/yourlanguage/hindi/en/audiotrack/could-global-weather-get-worse

Courses (Teaching/Taught)

- Research Methodology I of 2 credits in Ph.D.
- Climate Dynamics of 2 credits in Ph.D.
- Research Methodology of 4 Credits in M.Phil./Ph.D.
- Atmospheric Processes of 2 Credits in M.Phil./Ph.D.
- Energy Use and its Environmental Implication of 3 credits in M.Phil./Ph.D.
- Meteorology of 2 credits in Masters'
- Climatology of 2 credits in Master's
- Energy and Environments of 2 credits in Master's
- Environmental Studies of non-credit for Bachelor's

Teaching/Academic Experience

- School of Environmental Sciences, Jawaharlal Nehru University, New Delhi India: M.Phil./Ph.D. and M.Sc. Students (continuing since Jan 2008)
- Educational Field Excursion of M.Sc. IInd Semester of Students of School of Environmental Sciences, Jawaharlal Nehru University, New Delhi
- Revision of existing M.Phil./Ph.D. and M.Sc. syllabi at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India

- Academic Staff College, Jawaharlal Nehru University, New Delhi, India - Lead talks for teachers of various graduate/post graduate colleges across India
- POst INduction Training School (POINTS) of Defense Research and Development Organization for newly recruited scientists at Defense Institute of Advance Technology (DIAT-Deemed University), Girinagar, Pune, India (2002-2006)
- Continuing Education Program (CEP) of Defense Research and Development Organization on "Mountain Weather Forecasting: Emerging trends and Modeling Tools" from 09 to 20 Jul 2007
- Continuing Education Program (CEP) of Defense Research and Development Organization on "Computational Techniques and its Applications" from 26 to 30 Dec 2005 at Institute of Armament Technology, Girinagar, Pune, India
- Summer Project supervision of B.Tech. student
- Continuing Education Program (CEP) of Defense Research and Development Organization on "Application of Advanced Mathematical Techniques In Weather, Snow And Avalanche Related Studies" from 04 to 15 Jul 2005
- Continuing Education Program (CEP) of Defense Research and Development Organization on "Statistical and Fuzzy Techniques of Avalanche Forecasting - Recent Advances" from 28 Jun to 09 Jul 2004
- M.Tech. on Cold Region Science and Technology of G.B. Pant Agricultural University, Pantnagar, Uttaranchal, India (1995 – 2001)

Institutional Activities

- **Co-Ordinator**, 5th Refresher Course in Environmental Studies (IDC), HRDC, JNU, New Delhi. 20 Sep - 04 Oct 2021
- Convener of Area-I, School of Environmental Sciences (2016 -)
- **Admission Committee Chair,** School of Environmental Sciences (2019 -)
- **Member** (21 Sep 2016 – 20 Sep 2018), Center Committee of the Center for Inner Asian Studies, School of International Studies, Jawaharlal Nehru University, New Delhi, India.
- **Chief Proctor** (01 Mar 2016 – 23 Jan 2017), Jawaharlal Nehru University, New Delhi, India.
- **Member** (2013 - 2015), Center for the Study of Regional Development, School of Social Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Executive Council Member** (2012 – 2013), Jawaharlal Nehru University Teaching Association (JNUTA), New Delhi, India.
- **Proctor** (31 Jan 2013 – 30 Jan 2015), Jawaharlal Nehru University, New Delhi, India.
- **Convener**, Sub-Committee on 'Formulating Methodology during admission' in School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Warden In-charge (Administration)** (25 Sep 2012 – 15 Oct 2014), Yamuna Working Women Hostel, Jawaharlal Nehru University, New Delhi, India.
- **Member, Academic Council** (2012 – 2014; 2016 - 2018), Jawaharlal Nehru University, New Delhi, India.
- **Member Court** (2012 – 2014; 2016 - 18), Jawaharlal Nehru University, New Delhi, India.
- **Member** (11 Mar 2016 – 10 Mar 2018), Advisory Committee of Communication and Information Service (CIS), Jawaharlal Nehru University, New Delhi, India.
- **Member** (2010 – 2012), Advisory Committee of Communication and Information Service (CIS), Jawaharlal Nehru University, New Delhi, India.

- **Member**, High Performance Computational Facility, Jawaharlal Nehru University, New Delhi, India.
- **Member** (2009 - 2010), Gender Sensitization Committee against Sexual Harassment (GSCASH), Jawaharlal Nehru University, New Delhi, India.
- **Head**, High Performance Computational Committee, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Admission Coordinator,** School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Warden** (2009 – 2010), Chandrabhagha Hostel, Jawaharlal Nehru University, New Delhi, India.
- **Working President** (2006-2008), Hindi Committee for promoting science in Indian Hindi language at Snow and Avalanche Study Estt., Defense Research and Development Organization.
- **Secretary** (2003 – 06), Hindi Committee for promoting science in Indian Hindi language at Snow and Avalanche Study Estt., Defense Research and Development Organization.
- **Second Secretary,** 'EUREKA', an informal forum which shares latest happening in science at Snow and Avalanche Study Estt., Defense Research and Development Organization.
- **Presiding officer/member**, of various institutional boards of Snow and Avalanche Study Estt., Defense Research and Development Organization.

Other Activities

- **Session Convener: Extreme Weather Events,** TROPMET 2016, Indian Meteorological Society, Bhubaneswar, Orissa, 18 – 21 Dec 2016
- **Co-Host** (With Prof Al. Ramanathan): **Global Initiative of Academic Network (GIAN) on 'Glacier and Water Resource Management'** at School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, 25 – 31 Jul 2016.
- **Session Convener (with Prof Gang Liu):** Computer application in earth sciences in 16th Annual Conference of the International Association for Mathematical Geosciences, Jawaharlal Nehru University, New Delhi, India, 17-20 October, 2014.
- **Session Chair:** Observational and Modeling studies on Tropical Cyclone, AOGS2010, Hyderabad, India.
- **Session Convener:** Extreme Weather events in changing climate, AOGS2010, Hyderabad, India.
- **Organizer**: Workshop on "High Performance Computing", School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, 08 – 11 Dec 2009.
- **Member:** Syllabus Committee, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.
- **Organizer:** Continuing Education Programme (CEP), symposium and conference etc. of Defense Research and Development Organization at various capacities.

Supervision

Doctoral

Wasim Hassan (contd.) (Co-supervisor) -
Mohit Yadav (contd.) -
Pooja (contd.) -
A. Sharma (contd.) -
Md. R. A. Ahamed (contd.) -

S. G. Kutty (2021) - Study of natural and anthropogenic forcings on fog events over India
P. Kumar (2021) - Energetic of Indian monsoons and variability of associated droughts
T. M. Midhuna (2021) - Indian Winter Monsoon and its future projection under changing climate scenario (Co-supervisor Dr. D. R. Pattanaik)
A. Shikha (2021) – Model based approach to study the impact of climate change on cotton crop (Co-supervisor Dr. K. K. Singh)
D. Kumar (2021) - Assessment of Coupled Regional Land-Atmosphere model for Indian summer monsoon and its future projection
P. K. Rai (2020) - Variability of Indian Summer Monsoon at various time scales in relation with different atmospheric forcings
M. Jain (2020) - Urbanization and its manifestations on localized weather (Co-supervisor Prof. D. Niyogi)
R. M. Devi (2020) – Approach for Planning Adaptation Strategies to Climate Change Using Regional Climate Model and Remote Sensing (Co-supervision with Dr. B. Sinha)
A. Chaudhary (2019) - Study of Indian summer monsoon using Regional Climate model experiments
B. S. Sahu (2018) - Analysis of long term variability in total ozone column and erythemal ultra violet radiation over Indian region (Co-supervisor Dr. A. Tandon)
A. Chevuturi (2015) – Study of precipitating events over India
P. Maharana (2014) – Interannual and intraseasonal climatic variability over the Indian region

M. Phil.

P. Tiwari (2021) – Impact of initial conditions and surface forcings on Sea Surface Temperature simulations using Regional Ocean Modelling System (ROMS) (Co-supervisor Dr. P. A. Francis)
A. Shikha (2017) - A model based case study of water stress on cotton crop (Co-supervisor Dr. K. K. Singh)
R. M. Devi (2014) – Study of extreme precipitation over Uttarakhand region during summer 2013

Masters'

Vandana (2021) – Micrometeorological study over JNU
Sonam Choedon (2020) - Future changes in climate extremes, energy budget and hydrological budget over Upper Indus Basin
Upasana Desor (2020) - Assessment of monsoon precipitation characteristics over Upper Ganga River Basin using regional climate model
Deepika Bisht (2019) - A study on seasonal water budget in Upper Ganga River Basin
Devika (2018) - Future temperature extremes over Himalayan region from bias corrected regional climate simulation
D. Sen (2016) - Statistical analysis of the influence of nutritional cycles on a selected cluster of genes and their role in combating oxidative stress in *E. Coli* cells: A multiple linear regression approach
T. Nengker (2016) - Evaluation of the performance of CORDEX-SA experiments for seasonal temperature over the Himalayan region for the present climate
S. Ghimire (2015) - Performance of CORDEX-South Asia Regional Climate Models in Simulating Precipitation Climatology over Hindu-kush Himalayan region
K. Saurabh (2014) - Fog forecast over Delhi region using artificial neural network
A. Shikha (2014) - Cloudburst: An extreme precipitation event
P. Gunwani (2010) - Energy balance model
J. T. Bhutia (2009) - Western Disturbances

Programming languages : FORTRAN77, FORTRAN90
Operating systems used : DEC ALPHA (OSF), SGI (IRIX), Sun (Solaris), CARY- SV1, Windows/DOS
Software : MATLAB, Mathematica, MS OFFICE, Word Perfect, Visualization packages (Surfer, Grapher, Grads)

Training Courses Attended

- Workshop on High-Impact Weather Predictability and Information System for Africa and AMMA-THORPEX Forecasters' Handbook, 5 - 8 Oct 2009, ICTP, Trieste, Italy
- Targeted Training Activity: Seasonal Predictability in Tropical Regions: Research and Applications, 07 – 18 Aug 2006, in collaboration with and Co-sponsored by COLA-IGES (Center for Ocean, Land, Atmosphere Studies) MD, USA and ICTP, Trieste, Italy
- Applications of Neuro Fuzzy Techniques in Engineering Systems, 21 – 25 Nov 2005, Institute of Armament Technology, Deemed University, Pune, India
- Right Mindset and Practices for Effective Project Management in Defense Research and Development Organization Context, 26 - 30 Sep 2005, Institute of Technology Management, Mussoorie, India
- Targeted Training Activity: Course on Climate Dynamics for Climate Research Centers and University Lecturers, 09 - 27 Aug 2004, in collaboration with and Co-sponsored by COLA-IGES (Center for Ocean, Land, Atmosphere Studies) MD, USA and ICTP, Trieste, Italy
- Summer School on Mountain Meteorology (SSMM) on "Thermally Driven Winds in Mountainous Terrain", 18 – 22 Aug 2003, University of Trento, Italy
- Numerical Weather Prediction (Parameterization of Physical Processes), 08 Apr – 04 May 2002, Indian Institute of Technology, New Delhi, India
- Familiarization Programme on Numerical Weather Prediction (NWP), 18 – 20 Dec 2001, National Centre for Medium Range Weather Forecasting (NCMRWF), New Delhi, India
- Numerical Weather Prediction (Data Processing, Assimilation and Initialization), 12 Mar – 07 Apr 2001, Indian Institute of Technology, New Delhi, India
- Cloud Physics and Atmospheric Electricity – Fundamentals, 13 Jun – 14 Jul 2000, Indian Institute of Tropical Meteorology, Pune, India (secured 1st position in paper presentation)
- Intensive course on use of Statistical methods in weather analysis and prediction, 02 – 21 Dec 1996, Indian Institute of Technology, New Delhi, India
- National symposium on International Geosphere-Biosphere Program, 21 –24 Apr, 1993, Central Leather Research Institute and Anna University, Madras, India
- Familiarization course in Oceanography, 25 - 29 Jan 1993, National Institute of Oceanography, Goa, India
- Understanding the present climate and its Future change over the Indian subcontinent due to global warming, 7 – 24 Dec, 1992, Indian Institute of Technology, New Delhi, India

Field Visits

- Oct 2021 - Alaknanda River Basin, Uttarakhand, India
- Sep 2021 - Ladakh Region, India, under NMHS program
- Apr 2021 – Alaknanda River Basin, Uttarakhand, India
- Oct 2019 - Alaknanda River Basin, Uttarakhand, India, Indo-Norwegian Project
- Jun 2019 - Ladhak Region, India, under NMHS program

- Sep 2018 - Ladhak Region, India, under NMHS program
- Jun 2018 - Ladhak Region, India, under NMHS program
- Jun 2017 - Bhagirathi River Basin, Uttarakhand, India
- Apr 2017 - Bhagirathi River Basin (Harsil and Chamba), Uttarakhand, India, under NMSHE program
- Feb 2017 - Alaknanda and Bhagirathi River Basin, Uttarakhand, India
- Aug 2016 - Ladhak Region, India, for Climate Change Research
- Jan – Feb 2016 – Sundarbans, West Bengal, India, for Climate Impact Research; Ministry of Home, Govt. of India, Under JNU-DRP program
- Sep 2013 – Ladhak Region, India, for Climate Change Research
- Jun 2009 – Himachal Pradesh, India, forest for sampling tree ring for climate proxy data records
- Apr 2009 – Uttarakhand, India, forest for sampling tree ring for climate proxy data records
- May 2005 - Dissemination workshop on “Avalanche Forecasting” for defense personals at Baramulla (altitude 1625m), 20-21 May 2005
- Winter 2004 - 05 at Srinagar (altitude 1582m)
- Dec 2003 - Cadre on “Avalanche safety and rescue” for defense personals at Baramulla (altitude 1625m)
- Winter 2002 - 03 at Srinagar (altitude 1582m)
- Oct 1999 - Cadre on “Avalanche safety and rescue” for defense personals at Drass (altitude 3230m)
- Oct 1999 - Installation of surface meteorological observatory at Bakrwal (altitude 3620m) in Kargil Sector along LOC in Great Himalayas
- Winter 1999 - 2000 at Srinagar (altitude 1582m)
- Winter 1998 - 99 at Srinagar (altitude 1582m)
- Winter 1997 - 98 at Patseo (altitude 3800m) in Great Himalayas
- May 1996 - Assistance to Border Road Organization (BRO) in snow road clearance along Srinagar (altitude 1582m) – Leh (altitude 3523m) axis from Sonamarg (altitude 2745m) to Zozila pass (altitude 3529m) in Great Himalayas
- Oct 1995 - Revamping of surface meteorological observatories at Pharkian (altitude 2960m), Z-Gali (altitude 3192m) and Sonapindi Gali (altitude 3281m) in Pir Panjal
- Winter 1994 - 95 at Siachen Glacier (altitude 3570m): Largest Glacier outside the polar region in Karakoram Himalayas