Curriculum Vitae



Title	Dr.	First Name	Netrananda	Last Name	Sahu	Photograph
Designation		Assistant Professor				
Address		Department of Geography, Delhi School of Economics, University of Delhi, Delhi 110007				
Phone	e No Office	+91-11-276	56491			A MAT APP A
Resid	ence					2
F 1	Mobile	+91-991085	0478			
Email	l	babunsahu nsahu@geo	<u>@gmail.com</u> , graphy.du.ac.ii	<u>n</u>		
Web-	Page					
Educa	ational Qualificati	ons				
Degre	ee	Institution				Year
Postd	oc	Kyoto Univ	rersity			2018-2020
Ph.D.		Departmen Engineerin	t of Urban and g, Kyoto Unive	2012		
M.Phil.		Departmen of Delhi	t of East Asian	2008		
PG		Department of Geography, University of Delhi				2004
Any c qualif	other ication	UGC-NET	'JRF			2005
Traini	ing	Two month Program Yo Internation and Society York. Und Robertson, Program, Ky	s from April-Moung Researcher al Research I y (IRI), Colum ler the guidan Program is spor yoto University,	May, 2012, Overseas R institute for ibia Univer nce of Dr isored by Ge Japan	Internship tesearch to r Climate sity, New . Andrew COE-ARS	2012
		Three mon Researcher Research In Columbia U Two month JAMSTEC	ths from Sep Overseas Tr stitute for Clim J niversity , New s Internship from under Dr. Sy	t-Nov, 201 rip to In ate and Soc VYork. m Feb-Marc wadhinK.Be	1, Young ternational iety (IRI), h, 2010 at hera,Team	2011

		1
	Leader, Low-latitude Climate Prediction Research,	
	CVPARP/RIGC, JAMSTEC , Yokohama,	
	sponsored by GCOE-HSE Program, Kyoto	2010
	University.Japan.	
	UNESCO-IHP Training Course on 'Water	
	Resources and Water-Related Disasters under	
	Climate Change-Prediction, Impact, Assessment	
	and Adaptation' from 29 Nov12Dec. 2009 at	
	Disaster Prevention Research Institute (DPRI),	
	Kyoto University, Japan	
	5 57 1	
	Four Days Training on Remote Sensing-GIS with	
	TNTmips Software for Livelihood of Himachal	
	Pradesh. Department of Geography, Delhi School	
	of Economics University of Delhi from 18-21	
	December 2013	
Refresher/Orientation	• Three weeks Refresher course from	
Refreshel/Offentation	CDDUE University of Dalhi Nevember 20 th to	
	CFDHE, University of Denni, November 28 to	
	December 19 ⁴⁴ , 2017.	
	• One month Orientation Course from 27 th	
	April to 25 th May 2016 at UGC-HRD, Jamia Milia	
	Islamia	

Career Profile

Organisation/Institution	Designation	Duration
Department of Geography,	Assistant Professor	22/02/2014 – Till date
University of Delhi	(Permanent)	
Department of Geography,	Assistant Professor (Ad-hoc)	02/01/2014 - 20/02/2014
University of Delhi		
Swami Shraddhanand	Assistant Professor (Ad-hoc)	19/08/2013 - 14/12/2013
College, University of Delhi		
National Institute of Disaster	Research Associate	15/05/2013-14/08/2013
Management, Delhi		

Administrative Assignments

Warden: Mansarovar Hostel from 18th April 2024 till date

Areas of Interest / Specialization

Climate change and societal impact, River Hydrology/Hydrometeorology/Climate Variability/Extreme Events and Disaster Management

Subjects Taught in 2020-2021

Land Ocean atmosphere interaction/ Environmental Impact Assessment/Statistical Applications in Geography for PG Students

Coursework Paper II for M.Phill/PhD Program

Coursework Paper III for M.Phill student

Research Guidance

Three PhD Awarded

Four PhD (Ongoing) Five M.Phil. Awarded

Projects Details

Sr. No.	Funding Agency	Title of the Project	Tenure	Cost of the Project (Rs
1	University of Delhi	Stochastic analysis of intra- seasonal rainfall variability in Himachal Himalaya	2014-2015	100000
2	University of Delhi	Impact of the climate change on the agriculture in the Chamba District of Himachal Pradesh	2015-2016	130000
3	IoE, University of Delhi	Impact of climatic variability on the vector-borne diseases in KBK districts of Odisha, India	2021-2022	175000
4	ICSSR	Impact of Climate Change and Anthropogenic Activities on Spring Disappearance: A Geospatial Study on issues of water security in Himachal Pradesh, India	2022- 2024(Ongoing)	9,00,000
5	PMMMNMTT Scheme	"Impact Assessment of Climatic Variability on Tea Production in Darjeeling Region of West Bengal using Artificial Intelligence and Machine Learning Techniques"	2023- 2024(Ongoing)	10,05,000
Publication	ns Profile			

Research papers published in Refereed/Peer Reviewed Journals

1. Mallick, S. K., Sahu, N., Das, P., Maity, B., Varun, A., Kumar, A., Kesharwani, R., Saini, A., Rudra, S. (2024). Impact of Urban Growth in Delhi and It's Peri-urban Environment on Urban Heat Exposure. *Urban Climate*. (Accepted) (IF:6.4, CS:9.7, Scopus/WoS).

- Sahu, N., Das, P., Ratna, S. B., Saini, A., Mallick, S. K., Kumar, A., & Mohapatra, M. (2024). A bibliometric analysis for Indian summer monsoon variability. *Spatial Information Research*, 1-17. <u>https://doi.org/10.1007/s41324-024-00587-9</u> (IF:2.4, Scopus/WoS).
- Majid, S. I., Kumar, M., Sahu, N., Kumar, P., & Tripathi, D. K. (2024). Application of ensemble fuzzy weights of evidence-support vector machine (Fuzzy WofE-SVM) for urban flood modeling and coupled risk (CR) index for ward prioritization in NCT Delhi, India. *Environment, Development and Sustainability*, 1-39. <u>https://doi.org/10.1007/s10668-024-04926-6</u> (IF:4.9, Scopus/ WoS.)
- Kumar, R., Kumar, M., Tiwari, A., Majid, S. I., Bhadwal, S., Sahu, N., & Avtar, R. (2023). Assessment and Mapping of Riverine Flood Susceptibility (RFS) in India through Coupled Multicriteria Decision Making Models and Geospatial Techniques. *Water (Switzerland)*, 15(22). <u>https://doi.org/10.3390/w15223918</u> (IF:3.4, CS:5.5, Scopus/ WoS). Journal Rank: Q1 (Geography, Planning and Development), Q2 (Water Resources).
- Pragya, Kumar, M., Tiwari, A., Majid, S. I., Bhadwal, S., Sahu, N., ... Avtar, R. (2023). Integrated Spatial Analysis of Forest Fire Susceptibility in the Indian Western Himalayas (IWH) Using Remote Sensing and GIS-Based Fuzzy AHP Approach. *Remote Sensing*, 15(19). <u>https://doi.org/10.3390/rs15194701</u> (IF:5.0, CS: 7.9, Scopus/WoS). Journal Rank: Q1 (Geosciences, Multidisciplinary), Q1 (General Earth and Planetary Sciences)
- Mishra MM, Sahu N, Pani B, Chakraborty A, Mallick G. Assessment of Human Health Vulnerability in Kalahandi-Balangir-Koraput Region of Odisha, India. Journal of Communicable Diseases. 2023 Jun 30;55(2):1-8. (IF:1.54, Scopus) <u>https://doi.org/10.24321/0019.5138.202318</u>
- Pandit P, Saini A, Sahu N, Mehra R. 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. 2023 Jun 22:100974. (IF:5.9, CS:10.4, Scopus/ WoS), Journal Rank: Q1(Geography, Planning and Development), Q1 (Environmental Chemistry), Q1 (Environmental Engineering), Q1 (Water Science and Technology) <u>https://doi.org/10.1016/j.gsd.2023.100974</u>
- Sahu N, Das P, Saini A, Varun A, Mallick SK, Nayan R, Aggarwal SP, Pani B, Kesharwani R, Kumar A. Analysis of Tea Plantation Suitability Using Geostatistical and Machine Learning Techniques: A Case of Darjeeling Himalaya, India. Sustainability. 2023 Jun 26;15(13):10101. (IF:3.9, CS:5.8, Scopus/ WoS), 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). <u>https://doi.org/10.3390/su151310101</u>
- 9. Mishra MM, Sahu N, Mallick G, Pani B. Trend of malaria incidences and its association with rainfall in Kalahandi District of Odisha, India. *Indian Journal of Public Health.* 2023

Jan 1;67(1):166-9. (**IF:2.219, Scopus/ WoS**), **Journal Rank: Q3** (Medicine (miscellaneous)) <u>https://doi.org/10.4103/ijph.ijph_916_22</u>

- Mishra H, Pandey BW, Mukwada G, De Los Rios P, Nigam N, Sahu N. Trapped within nature: climatic variability and its impact on traditional livelihood of Gaddi transhumance of Indian Himalayas. Local Environment. 2023 Jan 10:1-7. <u>https://doi.org/10.1080/13549839.2022.2162025</u> (IF:2.4, CS:4.6, Scopus/ WoS), Journal Rank: Geography, Planning and Development (Q1);Management, Monitoring, Policy and Law (Q1).
- Saini A, Sahu N, Mishra SK, Jain S, Behera S, Dash SK. The Spatio-Temporal Onset Characteristics of Indian Summer Monsoon Rainfall and Their Relationship with Climate Indices. *Atmosphere*. 2022; 13(10):1581. <u>https://doi.org/10.3390/atmos13101581</u> (IF:2.9, CS: 4.1, Scopus/WoS). Journal Rank: Q2 (Atmospheric Science, Environmental Science (miscellaneous)).
- Kanga S, Meraj G, Johnson BA, Singh SK, PV MN, Farooq M, Kumar P, Marazi A, Sahu N. Understanding the Linkage between Urban Growth and Land Surface Temperature—A Case Study of Bangalore City, India. Remote Sensing. 2022 Aug 28;14(17):4241. https://doi.org/10.3390/rs14174241 (IF:5, CS: 7.9, Scopus/WoS). Journal Rank: Q1 (Geosciences, Multidisciplinary), Q1 (General Earth and Planetary Sciences)
- Avtar R, Rinamalo AV, Umarhadi DA, Gupta A, Khedher KM, Yunus AP, Singh BP, Kumar P, Sahu N, Sakti AD. Land Use Change and Prediction for Valuating Carbon Sequestration in Viti Levu Island, Fiji. Land. 2022 Aug 8;11(8):1274. <u>https://doi.org/1.3390/land110081274</u> (IF:3.9, CS: 3.7, Scopus/WoS), Journal Rank: Q2 (Ecology, Nature and Landscape Conservation), Q3 (Global and Planetary Change)
- Mishra M.M, Sahu N, Mallick G, Pani B. Knowledge, Perception, and Behaviour Concerning Impact of Climate Variability on Health: A Cross-Sectional Study in the Tribal-dominated Kalahandi District, India. Journal of Communicable Diseases. 2022 June;54(2):39-48. <u>https://doi.org/10.24321/0019.5138.202269</u> (IF:1.54, Scopus)
- Debnath J, Meraj G, Das Pan N, Chand K, Debbarma S, Sahariah D, Gualtieri C, Kanga S, Singh SK, Farooq M, Sahu N. Integrated remote sensing and field-based approach to assess the temporal evolution and future projection of meanders: A case study on River Manu in North-Eastern India. PloS one. 2022 Jul 20;17(7):e0271190. https://doi.org/10.1371/journal.pone.0271190 (IF:3.752, Scopus), Journal Rank: Q1 Multidisciplinary.
- Mishra MM, Sahu N. Assessing Waterborne Disease Vulnerabilities in the Blocks of Kalahandi District of Odisha, India. Indian Journal of Community Medicine. 2022 Apr 1;47(2):229. (Scopus/ WoS), <u>https://doi.org/10.4103/ijcm.ijcm_607_21</u> Journal Rank: Q3 (Public Health, Environmental and Occupational Health)

- Sinha KK, Gupta MK, Banerjee MK, Meraj G, Singh SK, Kanga S, Farooq M, Kumar P, Sahu N. Neural Network-Based Modeling of Water Quality in Jodhpur, India. Hydrology. 2022 May;9(5):92. <u>https://doi.org/10.3390/hydrology9050092</u> (SC: 3.2, CS: 4.1 Scopus/WoS), Journal Rank: Q2 (Earth-Surface Processes, Oceanography, Waste Management and Management and Disposal, Water Science and Techonology).
- Fayaz M, Meraj G, Khader SA, Farooq M, Kanga S, Singh SK, Kumar P, Sahu N. Management of Landslides in a Rural–Urban Transition Zone Using Machine Learning Algorithms—A Case Study of a National Highway (NH-44), India, in the Rugged Himalayan Terrains. Land. 2022 Jun;11(6):884. <u>https://doi.org/10.3390/land11060884</u> (IF:3.9, CS: 3.7, Scopus/WoS), Journal Rank: Q2 (Ecology, Nature and Landscape Conservation), Q3 (Global and Planetary Change)
- Tyagi N, Jayal T, Singh M, Mandwal V, Saini A, Sahu N, Nayak S. Evaluation of Observed and Future Climate Change Projection for Uttarakhand, India, Using CORDEX-SA. Atmosphere. 2022 Jun;13(6):947. <u>https://doi.org/10.3390/atmos13060947</u> (IF:2.9, CS: 4.1, Scopus/WoS), Journal Rank: Q2 (Atmospheric Science, Environmental Science (miscellaneous)).
- 20. Meraj G, Kanga S, Ambadkar A, Kumar P, Singh SK, Farooq M, Johnson BA, Rai A, Sahu N. Assessing the Yield of Wheat Using Satellite Remote Sensing-Based Machine Learning Algorithms and Simulation Modeling. Remote Sensing. 2022 Jan;14(13):3005. <u>https://doi.org/10.3390/rs14133005</u> (IF:5, CS: 7.9, Scopus/WoS). Journal Rank: Q1 (Geosciences, Multidisciplinary), Q1 (General Earth and Planetary Sciences)
- 21. Duan W, Zou S, Christidis N, Schaller N, Chen Y, Sahu N, Li Z, Fang G, Zhou B. Changes in temporal inequality of precipitation extremes over China due to anthropogenic forcings. npj Climate and Atmospheric Science. 2022 Apr 19;5(1):1-3. <u>https://doi.org/10.1038/s41612-022-00255-5</u> (IF: 9.0, Scopus/ WoS), Journal Rank: Q1 (Atmospheric Science, Environmental Chemistary, Global and Planetary Change.)
- 22. Pandit P, Saini A, Chidhambaram S, Kumar V, Panda B, Ramanathan AL, Sahu N, Singh AK, Mehra R. Tracing geochemical sources and health risk assessment of uranium in groundwater of arid zone of India. Scientific Reports. 2022 Jun 1;12(1):1-2. <u>https://doi.org/10.1038/s41598-022-05770-2</u> (IF:4.6, CS: 7.1, Scopus/WoS), Journal Rank: Q1 (Multidisciplinary)
- 23. Mishra MM, Sahu N. Climate and Disease vulnerability analysis in blocks of Kalahandi District of Odisha, India. Indian Journal of Public Health. 2022 Jan 1;66(1):20. <u>https://doi.org/10.4103/ijph.ijph_1298_21</u> (IF:2.219, Scopus/ WoS), Journal Rank: Q3 (Medicine (miscellaneous))
- 24. Rather MA, Meraj G, Farooq M, Shiekh BA, Kumar P, Kanga S, Singh SK, Sahu N, Tiwari SP. Identifying the Potential Dam Sites to Avert the Risk of Catastrophic Floods in the Jhelum Basin, Kashmir, NW Himalaya, India. Remote Sensing. 2022 Mar 22;14(7):1538. <u>https://doi.org/10.3390/rs14071538</u> (IF:5, CS: 7.9, Scopus/WoS), Journal Rank: Q1 (Geosciences, Multidisciplinary), Q1 (General Earth and Planetary Sciences)

- 25. Bera, A., Meraj, G., Kanga, S., Farooq, M., Singh, S. K., Sahu, N., & Kumar, P. Vulnerability and risk assessment to climate change in Sagar Island, India. *Water* 2022, 14(5), 823. <u>https://doi.org/10.3390/w14050823</u> (IF:3.4, CS:5.5, Scopus/ WoS). Journal Rank: Q1 (Geography, Planning and Development), Q2 (Water Resources).
- 26. Saini, A., Sahu, N., Duan, W., Kumar, M., Avtar, R., Mishra, M., Kumar, P., Pandey, R., & Behera, S. Unraveling intricacies of monsoon attributes in homogenous monsoon regions of India. *Frontiers in Earth Science* 2022, 10. <u>https://doi.org/10.3389/feart.2022.794634</u> (IF:2.9 CS:3.2, Scopus/ WoS), Journal Rank: Q1 (Multidisciplinary).
- Kumar, R., Nath, A. J., Nath, A., Sahu, N., & Pandey, R. Landsat-based multi-decadal spatio-temporal assessment of the vegetation greening and browning trend in the eastern Indian Himalayan region. *Remote Sensing Applications: Society and Environment* 2022, 25, 100695. <u>https://doi.org/10.1016/j.rsase.2022.100695</u> (IF:4.7, CS:7, Scopus/ WoS), Journal Rank: Q1 Geography, Planning and Development, Q2 (Computers in Earth Sciences).
- 28. Masroor, M., Avtar, R., Sajjad, H., Choudhari, P., Kulimushi, L. C., Khedher, K. M., Komolafe, A. A., Yunus, A. P., & Sahu, N. Assessing the influence of land use/land cover alteration on climate variability: An analysis in the Aurangabad district of Maharashtra State, India. *Sustainability* 2022, *14*(2), 642. <u>https://doi.org/10.3390/su14020642</u> (IF:3.9, CS:5.8, Scopus/WoS), 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).
- 29. Nayak, S., Maity, S., Sahu, N., Saini, A., Singh, K. S., Nayak, H. P., & Dutta, S. Application of "observation minus reanalysis" method towards LULC change impact over Southern India. *ISPRS International Journal of Geo-Information* 2022, *11*(2), 94. <u>https://doi.org/10.3390/ijgi11020094</u> (IF:3.4, CS:6.2, Scopus/WoS), Journal Rank: Q1 (Earth and Planetary Sciences (miscellaneous) Geography, Planning and Development), Q2 (Computers in Earth Sciences).
- 30. Shyam, M., Meraj, G., Kanga, S., Sudhanshu, Farooq, M., Singh, S. K., Sahu, N., & Kumar, P. Assessing the groundwater reserves of the Udaipur district, Aravalli Range, India, using geospatial techniques. *Water* 2022, 14(4), 648. <u>https://doi.org/10.3390/w14040648</u> (IF:3.4, CS:5.5, Scopus/ WoS), Journal Rank: Q1 (*Geography, Planning and Development*), Q2 (*Water Resources*).
- Chand, K., Kuniyal, J. C., Kanga, S., Guleria, R. P., Meraj, G., Kumar, P., Farooq, M., Singh, S. K., Nathawat, M. S., Sahu, N., & Kumar, R. Aerosol characteristics and their impact on the Himalayan Energy Budget. *Sustainability* 2021, 14(1), 179. <u>https://doi.org/10.3390/su14010179</u> (IF:3.9, CS:5.8, Scopus/ WoS), 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).

- 32. Hu, Y., Duan, W., Chen, Y., Zou, S., Kayumba, P. M., & Sahu, N. An integrated assessment of runoff dynamics in the Amu Darya River Basin: Confronting climate change and multiple human activities, 1960–2017. *Journal of Hydrology* 2021, 603, 126905. <u>https://doi.org/10.1016/j.jhydrol.2021.126905</u> (IF:6.4, CS:10.4, Scopus/WoS). Journal Rank: Q1 (Water Science and Technology).
- Mishra, M. M., & Sahu, N. Spatiotemporal distribution and trend analysis of Waterborne Diseases in Kalahandi District of Odisha, India. *Journal of Communicable Diseases* 2021, 53(04), 23–28. <u>https://doi.org/10.24321/0019.5138.202170</u> (Scopus), Journal Rank: Q4 (Infectious Diseases).
- 34. Sahu, N., & Mishra, M. M. Assessing the vulnerability index of covid-19 pandemic in India. GEOGRAPHY, ENVIRONMENT, SUSTAINABILITY 2021, 14(4), 131–139. <u>https://doi.org/10.24057/2071-9388-2021-059</u> (IF:0.3, CS:1.9, Scopus), Journal Rank: Q3 (Environmental science(miscellaneous), Geography, Planning and Development).
- 35. Sahu, N., & Mishra, M. M. Ramification of global and local climatic variability on resurgent cases of dengue in Delhi, India. *Disaster Advances* 2021, *14*(7), 32–41. <u>https://doi.org/10.25303/147da3221</u> (Scopus), Journal Rank: Q4 (Earth and Planetary Science (miscellaneous), Environmental Science (miscellaneous), Geography, Planning and Development, Safety,RiskReliability and Quality).
- 36. Singh, S., Singh, H., Sharma, V., Shrivastava, V., Kumar, P., Kanga, S., Sahu, N., Meraj, G., Farooq, M., & Singh, S. K. Impact of forest fires on air quality in Wolgan Valley, New South Wales, Australia—a mapping and monitoring study using Google Earth engine. *Forests* 2021, 13(1), 4. <u>https://doi.org/10.3390/f13010004</u>(IF:2.9, CS:4.5, Scopus/WoS), Journal Rank: Q1 (Forestry).
- 37. Mishra, M., Kar, D., Debnath, M., Sahu, N., & Goswami, S. Rapid eco-physical impact assessment of tropical cyclones using geospatial technology: a case from severe cyclonic storms Amphan. *Natural Hazards* 2021, 1-15. <u>https://doi.org/10.1007/s11069-021-05008-w</u> (IF:3.7, CS:4.9 Scopus/WoS), Journal Rank: Q1 (Earth and Planetary Science (miscellaneous), Q2 (Atmospheric Science, Water Science, Water Science and Technology).
- 38. Huang, W., Duan, W., Nover, D., Sahu, N., & Chen, Y. An integrated assessment of surface water dynamics in the Irtysh River Basin during 1990–2019 and exploratory factor analyses. *Journal of Hydrology* 2021, 593, 125905 https://doi.org/10.1016/j.jhydrol.2020.125905 (IF:6.4, CS:10.4, Scopus/WoS), Journal Rank: Q1 (Water Science and Technology).
- 39. Nath, A. J., Kumar, R., Devi, N. B., Rocky, P., Giri, K., Sahoo, U. K., ... & Pandey, R. Agroforestry land suitability analysis in the Eastern Indian Himalayan region. *Environmental Challenges* 2021, *4*, 100199. https://doi.org/10.1016/j.envc.2021.100199

(Ecology, Geography, Planning and Development, Global and Planetary Change, Management, Monitoring, Policy and Law, Nature and Landscape Conservation)

- Saini, A., Sahu, N. Decoding trend of Indian summer monsoon rainfall using multimethod approach. *Stoch Environ Res Risk Assess* 2021. <u>https://doi.org/10.1007/s00477-021-02030-z</u> (IF:4.2, Scopus/WoS). Journal Rank: Q1 (Environmental Science (miscellaneous), Safety, Risk, Reliability and Quality, Water Science and Technology), Q2 (Environmental Chemistry, Environmental Engineering).
- 41. Mishra MM, Sahu N, Pandey BW, Singh RB. Assessing Human Health Vulnerabilities in the Blocks of Kalahandi district of Odisha, India. *Disaster Advances* 2021, 14(4).32-40. (Scopus), Journal Rank: Q4 (Earth and Planetary Science (miscellaneous), Environmental Science (miscellaneous), Geography, Planning and Development, Safety,RiskReliability and Quality).
- 42. Kumar, P.; Dasgupta, R.; Dhyani, S.; Kadaverugu, R.; Johnson, B.A.; Hashimoto, S.; Sahu, N.; Avtar, R.; Saito, O.; Chakraborty, S.; Mishra, B.K. Scenario-Based Hydrological Modeling for Designing Climate-Resilient Coastal Water Resource Management Measures: Lessons from Brahmani River, Odisha, Eastern India. *Sustainability* 2021, *13*, 6339. <u>https://doi.org/10.3390/su13116339</u> (IF:3.9, CS:5.8, Scopus/ WoS), 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).
- 43. Vladimirov, L.N.; Machakhtyrov, G.N.; Machakhtyrova, V.A.; Louw, A.S.; Sahu, N.; Yunus, A.P.; Avtar, R. Quantifying the Northward Spread of Ticks (Ixodida) as Climate Warms in Northern Russia. *Atmosphere* 2021, *12*, 233. <u>https://doi.org/10.3390/atmos12020233</u> (IF:2.9, CS:4.1, Scopus/WoS), Journal Rank: Q2 (Atmospheric Science, Environmental Science (miscellaneous)).
- 44. Avtar, R.; Kouser, A.; Kumar, A.; Singh, D.; Misra, P.; Gupta, A.; Yunus, A.P.; Kumar, P.; Johnson, B.A.; Dasgupta, R.; Sahu, N.; Besse Rimba, A. Remote Sensing for International Peace and Security: Its Role and Implications. *Remote Sens.* 2021, *13*, 439. <u>https://doi.org/10.3390/rs13030439</u> (IF:5, SC:7.9, Scopus/WoS), Journal Rank: Q1 Earth and Planetary Sciences (miscellaneous).
- 45. Molekoa, M.D.; Avtar, R.; Kumar, P.; Thu Minh, H.V.; Dasgupta, R.; Johnson, B.A.; Sahu, N.; Verma, R.L.; Yunus, A.P. Spatio-Temporal Analysis of Surface Water Quality in Mokopane Area, Limpopo, South Africa. *Water* 2021, *13*, 220. <u>https://doi.org/10.3390/w13020220</u> (IF:3.4, CS:5.5, Scopus/ WoS), Journal Rank: Q1 (*Geography, Planning and Development*), Q2 (*Water Resources*).
- 46. Sahu, N.; Sayama, T.; Saini, A.; Panda, A.; Takara, K. 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* 2020, *12*, 2739. <u>https://doi.org/10.3390/w12102739</u> (IF:3.4, CS:5.5, Scopus/WoS). Journal Rank: Q1 (Geography, Planning and Development), Q2 (Water Resources).

- 47. 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. <u>https://doi.org/10.3390/atmos11111225</u> (IF:2.9,CS: 4.1, Scopus/WoS), Journal Rank: Q2 (Atmospheric Science, Environmental Science (miscellaneous)).
- 48. Sahu, N.; Saini, A.; Behera, S.; Sayama, T.; Nayak, S.; Sahu, L.; Duan, W.; Avtar, R.; Yamada, M.; Singh, R.B.; Takara, K. Impact of Indo-Pacific Climate Variability on Rice Productivity in Bihar, India. *Sustainability* 2020, *12*, 7023 https://doi.org/10.3390/su12177023 (IF:3.9, CS:5.8, Scopus/ WoS), 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).
- Sahu N, Saini A, Behera SK, Sayama T, Sahu Limonlisa , Van- Thanh- Van Nguyen, Kaoru Takara (2020) Why Apple Orchards are shifting to the Higher Altitudes of the Himalayas? *PLoS ONE*, 15(7):e0235041, <u>https://doi.org/10.1371/journal.pone.0235041</u> (IF:3.752, Scopus), Journal Rank: Q1 Multidisciplinary.
- 50. Sahu N, Panda A, Nayak S, Saini A, Mishra M, Sayama T, Sahu Limonlisa, Duan W, Avtar R, Behera SK (2020) Impact of Indo-Pacific Climate Variability on High Streamflow Events in Mahanadi River Basin, India, Water, 12(7), 1952; <u>https://doi.org/10.3390/w12071952</u> (IF:3.4, CS:5.5, Scopus/ WoS), Journal Rank: Q1 (Geography, Planning and Development), Q2 (Water Resources).
- 51. Avtar, R.; Kumar, P.; Supe, H.; Jie, D.; Sahu, N.; Mishra, B.K.; Yunus, A.P. Did the COVID-19 Lockdown-Induced Hydrological Residence Time Intensify the Primary Productivity in Lakes? Observational Results Based on Satellite Remote Sensing. *Water* 2020, *12*, 2573. <u>https://www.mdpi.com/2073-4441/12/9/2573</u> (IF:3.4, CS:5.5, Scopus/ WoS), Journal Rank: Q1 (*Geography, Planning and Development*), Q2 (*Water Resources*).
- 52. Rahman MD, Avtar R, Yunus AP, Dou J, Misra P, Takeuchi W, Sahu N, Kumar P, Johnson BA, Dasgupta R, Kharrazi A, Chakraborty S and Kurniawan TA (2020) Monitoring Effect of Spatial Growth on Land Surface Temperature in Dhaka, *Remote Sens.* 2020, 12(7), 1191; <u>https://doi.org/10.3390/rs12071191</u> (IF:5, CS:7.9, Scopus/WoS), Journal Rank: Q1 Earth and Planetary Sciences (miscellaneous).
- 53. Panda A and Sahu N (2019) Trend analysis of seasonal rainfall and temperature pattern in Kalahandi, Bolangir and Koraput districts of Odisha, India, *Atmospheric Science Letters*, <u>https://doi.org/10.1002/asl.932</u> (IF: 3, CS: 5.3, Scopus), Journal Rank: Q2 Atmospheric Science.
- 54. Panda A, **Sahu N**, Behera SK, Sayama T, Sahu Limonlisa , Avtar Ram, R.B. Singh and Masafumi Yamada (**2019**) Impact of Climate Variability on Crop yield in Kalahandi,

Bolangir and Koraput Districts of Odisha, India, *Climate*, 7(11), 126; <u>https://doi.org/10.3390/cli7110126</u> (**IF: 3.7, CS:5.2, Scopus/WoS**), Journal Rank: Q3 Atmospheric Science.

- 55. Avtar R, Sahu N, Aggarwal A.K., Chakraborty S., Kharrazi A., Yunus A.P., Dou J and Kurniawan T.A. (2019) Exploring Renewable Energy Resources Using Remote Sensing and GIS—A Review, *Resources*, 8(3), 149; <u>https://doi.org/10.3390/resources8030149</u> (IF :3.3, CS: 7.7, Scopus/WoS), Journal Rank: Q2 (Management, Monitoring, Policy and Law, Nature and Landscape Conservation)
- 56. Kumar M, Singh RB, Pravesh R, Kumar P, Tripathi DK, Sahu N (2018) Urban Growth Dynamics and Modeling using Remote Sensing Data and Multivariate Statistical Techniques, *Current Science*, Vol. 114, Issue:10 2018. <u>https://www.jstor.org/stable/26495646</u> (IF:1.169, Scopus), Journal Rank: Q2 (Multidisciplinary)
- 57. Panda A and **Sahu N** (2018) Understanding the relation between seasonal climatic parameters and cropping pattern in Bolangir district of Odisha, *Journal of Water Resources and Land use Management*, Vol 16, Issue 2. pp: 13-23.
- 58. Sahu N, Robertson A, Boer R, Behera S, DeWitt DG, Kaoru T, Kumar M, Singh RB: Probabilistic Seasonal Streamflow Forecasts of the Citarum River, Indonesia, Based on General Circulation Models, *Journal of Stochastic Environmental Research and Risk Assessment*, 2016, <u>https://doi.org/10.1007/s00477-016-1297-4</u> (IF:4.2, Scopus/WoS), 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).
- 59. Duan W, He B, Sahu N, Luo P, Nover D, Hu M, Takara K. Spatiotemporal variability of Hokkaido's seasonal precipitation in recent decades and connection to water vapour flux. International Journal of Climatology. 2017 Jul;37(9):3660-73. <u>https://doi.org/10.1002/joc.4946</u>, (IF:3.9, CS: 6.7 scopus), 31/94 (Meteorology & Atmospheric Sciences), Journal Rank: Q1 Atmospheric Science.
- 60. Sahu N., Behera SK, Ratnam JV, Silva RV, Parhi P, Duan W, Takara K, Singh RB and Yamagata T: El Nino Modoki connection to extremely-low streamflow of the Paranaiba River in Brazil, *Climate Dynamics*, 2014: 42,1509-1516 <u>https://doi.org/10.1007/s00382-013-2006-3</u> (IF:4.6, Scopus/WoS), Rank 2/105 (Atmospheric Science), Journal Rank: Q1 Atmospheric Science.
- Duan W., Takara K., Yamashiki Y., Bin H., Pingping L., Daniel N., Sahu N.: Spatiotemporal evaluation of water quality incidents in Japan between 1996 and 2007, *Chemosphere* 93(6):946-953, 2013, <u>https://doi.org/10.1016/j.chemosphere.2013.05.060</u> (IF: 8.8, CS:13.3, Scopus/WoS), Journal Rank: Q1 (Chemistry (miscellaneous), Environmental Chemistary, Environmental Engineering, Health, Toxicology and Mutagenesis, Medicine (miscellaneous), Pollution, Public Health, Environment and Occupational Health), Rank 19/98, (Environmental Chemistry).

- 62.Sahu N., Behera SK, Yamashiki Y, Takara K and Yamagata T: IOD and ENSO impacts on the extreme stream-flows of Citarum river in Indonesia, *Climate Dynamics*, 2012, Volume 39, Issue 7-8, pp 1673-1680. <u>https://doi.org/10.1007/s00382-011-1158-2</u> (IF:4.6, Scopus/WoS), Journal Rank: Q1 Atmospheric Science. Rank 2/105 (Atmospheric Science).
- 63. Sahu N, Singh RB, Kumar P, Silva RV, Behera SK: La Niña Impacts on Austral Summer Extreme High-Streamflow Events of the Paranaíba River in Brazil, *Advances in Meteorology*, Vol. 2013, Article ID 461693, <u>https://doi.org/10.1155/2013/461693</u>, ISSN NO. 1687-9309. (IF:2.9,CS:4.6, Scopus/WoS), Journal Rank: Q2 (Geophysics, Pollution), Q3 (Atmospheric Science).
- 64. Sahu N., Behera, S.K., Yamashiki, Y., Takara, K. and Yamagata, T.,: Large Impacts of Indo-Pacific Climate Modes on the Extreme Streamflows of Citarum River in Indonesia, *Journal of Global Environmental Engineering*, Vol.17, pp.1-8,2012.
- 65. Avtar, R., Kumar, P., Singh,C.K., Sahu,N., Verma, R.L., Thakur,J.K., Mukherjee,S. Hydrogeochemical Assessment of Groundwater Quality of Bundelkhand, India Using Statistical Approach, *Water Quality, Exposure and Health*, 2013, <u>https://doi.org/10.1007/s12403-013-0094-2</u> (IF:6.7, Scopus/WoS), Journal Rank: Q1 (Health, Toxicology and Mutagenesis, Pollution, Public Health, Environmental and Occupational Health, Water Science and Technology).
- 66. Gupta LN, Avtar R, Kumar P, Gupta GS, Verma RL, Sahu N, Sourav Sil, Jayaraman A, Roychowdhury K, Sharma K and Singh S: Multivariate Approach for Water Quality Assessment of River Mandakini at Chitrakoot, India, *Journal of Water Resources and Hydraulic Engineering*, Mar. 2014, Vol. 3 Iss. 1, PP. 22-29.

Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals

- 67. Mishra MM, Yadav G, Kumar P, **Sahu N**. Analysis of the trend of Tuberculosis prevalence in India and South Korea (2014-2019). International Journal for Social Development 2021;9(1).216-24
- 68. Sahu, N., Yamashiki, Y.and Takara K.,: An Observation on the Relationship between Climate Variability Modes and River Discharges of the Citarum Basin, Indonesia, *Kyoto University Disaster Prevention Research Institute, Annals*, Vol. 54 B, pp. 49-55, 2011. <u>http://hdl.handle.net/2433/151086</u>
- 69. Sahu, N., Yamashiki, Y. and Takara, K., (2010): Impact Assessment of IOD/ENSO in the Asian Region, *Kyoto University Disaster Prevention Research Institute, Annals*, Vol. 53 B, pp.97-102, 2010. <u>http://hdl.handle.net/2433/129420</u>
- 70. Sahu N., Yamashiki Y., and Kaoru T. Avatar R. and Singh R.B.: Impacts of ENSO on the Paranaiba River Basin, Brazil, *Kyoto University Disaster Prevention Research Institute*, *Annals*, Vol.55, pp. 102-108,2012. <u>http://hdl.handle.net/2433/161873</u>

Proceedings of International and Domestic Conferences (Published)/Book Chapters

- 71. Kumar, R., Sahu, N., Mishra, M.M. (2022). Geospatial Analysis of Kosi River Course from 1998 to 2018. In: Kumar, P., Nigam, G.K., Sinha, M.K., Singh, A. (eds) Water Resources Management and Sustainability. Advances in Geographical and Environmental Sciences. Springer, Singapore. <u>https://doi.org/10.1007/978-981-16-6573-8_20</u>
- 72. Sahu N, Mishra MM. (2021) Association and Effects of ISMR and El Niño Southern Oscillation on Dengue Outbreaks in India. In: Mishra R.K., Singh R.B., Dubey A. (eds) Sustainable Climate Action and Water Management. Advances in Geographical and Environmental Sciences. Springer, Singapore. <u>https://doi.org/10.1007/978-981-15-8237-0_13</u>
- 73. Panda A and Sahu N (2019) Water quality assessment: A comparative analysis between Han and Mahanadi river basin, Sushila Nasimham and Kim Do-young (Eds) Strengthening special strategic partnership India & South Korea, Manak Publication, New Delhi, PP:81-110, ISBN 9788194303503.
- 74. Saini, A., and Sahu, N. (2018). Climate Variability, Land-Use and Land-Cover Change (LULC) in Temperate River Basin: A Case form 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.
- 75. Saini, A., and Sahu, N. (2017). Urbanization Induced Air Pollution and its Impact: Cases of Delhi and Seoul. In *Forging a Multidimentional Partnership in the 21st Century, Ed* Sushila Narsimham and Kim Do Young (pp. 123-143). New Delhi: Manak Publication Pvt.,ISBN: 9789378314438.
- 76. Kumar A, Sahu N,Batar A (2014) Environmental Implications of Brass Industry in Moradabad City,Uttar Pradesh, Edited by Dr Subash Anand Progress in Environmental Management:Indian Experiences, Research India Publication, New Delhi, Chapter 8, pp.121-138.
- 77. Singh, R.B. and Sahu Netrananda (2008) Climate Change, Flooding and Biodiversity in the Sundarban Region, West Bengal-Geoinformatics for Monitoring and Modelling Land use, Biodiversity and Climate Change: contribution towards international year of planet earth, Etd Singh R.B. et al., Proceedings of International Conference on Land Use Change, Biodiversity and Climate Change, organized by Nesamony Memorial Christian College, Kanyakumari, Tamil Nadu on 6-7th, October, 2008), Vol. 1, ISBN 13:978-81-908283-1-4.2008.
- 78. Sahu N: (2007) Posco Deal: A Major Economic Breakthrough for the Government of Orissa, Chapter 9, (Etd.) *India and Korea: Bridging the Gap*, Dr. (Prof.) Susila Narsimham and Dr. (Prof.) Du-Yung Kim, Manak Publication, New Delhi, ISBN 10:81-78271-98-2., Chapter 9.,2007.

Invited Lecture delivered/Paper presented

Sl.	Title of the	Details of	Category/T	Date of	Durati	Invited
No	Invited	Conference /	ype of Event	Presentation(y	on (in	Talk/Paper
	Lecture	Seminar/ FDP and	•••	yyy-mm-dd)	mins.)	Presented
	delivered/Pape	Organizing				
	r presented	Institution				
1	Environmental	Ranchi University	National	2021-11-25	120	Resource
	studies and					Person
	disaster					
	management					
2	Higher Study	Central University	National	2021-07-03	90	Invited
	and Scope of	of Tamil Nadu				Lecture
	Research for					
	Geographers in					
	Foreign					
	Countries					
3	Understanding	JMI University,	National	2017-02-21	120	Resource
	Climate	Delhi				Person
	Change					
4	Understanding	Utkal University	State/Univer	2021-12-14	60	Invited
	disasters and		sity			Lecture
	best practices					
	preparedness					
	mechanism					
5	Higher study	Central University	State/Univer	2021-07-03	90	Invited
	and scope of	of Tamil Nadu	sity			Lecture
	Geographers in					
	foreign					
6	countries	X 0 (11	T () 1	2020 02 02	20	D
6	Impact of	Young Sustainable	International	2020-02-03	20	Paper
	climate	Symposium,	(Abroad)			Presentation
	variability on	HOKKaldo University Jenen				in Seminar
	India	University, Japan				
7	Inuia Impact of	AOGS Singapora	International	2010 07 20	20	Dapar
/	alimata changa	2010	(Abroad)	2019-07-29	20	Property
	in Himachal	2019	(Abioau)			in Seminar
	Himalayas					in Seminar
8	Descriptive	Kalindi College	National	2017-11-13	60	Invited
	statistics and	University of Delhi	1 varional			Lecture
	Measures of					
	Association					
	and correlation					
9	Climatic action	Climate Change	National	2018-04-22	30	Paper
	with	Conclave: 21-				Presentation
	technology	22April2018,				in Seminar
	transfer and	University of Delhi				
	green finance					
	for climate					
	action					

10	How ecologically sensitive is our ecological zone	Climate Change Conclave: 21- 22April2018, University of Delhi	National	2018-04-22	30	Paper Presentation in Seminar
11	Climatic variability and its impact on the agricultural Production	Climate Change Conclave : 21- 22April2018	National	2018-04-21	30	Paper Presentation in Seminar
12	Quantitative techniques in Social Science Research	Department of Geography, University of Delhi	National	2014-12-26	60	Invited Lecture
13	Impact of ENSO Modoki in Paranaiba Catchment, Brazil	Japan Geoscience Union Meeting 2011	International (Abroad)	2011-05-27	30	Paper Presentation in Seminar
14	Climate change and adaptability: A case study from Nako village of the Hangrang valley of Himachal Himalayas	Bilateral Seminal between India and Japan,14th January 2016	International (Abroad)	2016-01-14	30	Paper Presentation in Seminar
15	Disaster Reductions and environmental concerns in Delhi	65th GCOE-ARS Seminar	International (Abroad)	2016-01-15	60	Invited Lecture
16	Land use, bio- diversity and climate change	Nesanmony Memorial Christian College, 6-7 October 2008	International (within country)	2008-10-07	30	Paper Presentation in Seminar
17	Socio- economic and political adhrences to the POSCO project	RASK, JNU , 18-19 April, 2016	International (within country)	2016-04-19	30	Paper Presentation in Seminar
18	Sustainable tourism in Ajodhya: A case study of Ram Janam bhoomi complex	NAGI, Department of Geography, University of Jammu	National	2015-12-02	30	Paper Presentation in Seminar

19	Application of qualitative Techniques in Social Science Research, and Data Types and Sampling Methods	ICSSR Research Methodology Course, HBN University	National	2015-02-14	120	Invited Lecture
20	Impact of climate change on the phenology of temperate wet and dry region: A case of Himachal Himalaya	International Conference, Kalindi college , 1- 2 Feb. 2017	International (within country)	2017-02-02	30	Paper Presentation in Seminar
21	Environmental ethics, resources depletion, and sustainable development	Kalindi College, University of Delhi	National	2016-02-26	30	Paper Presentation in Seminar
22	Suspended particulate matter " A comparative study of Delhi and Seoul"	Researchers' Association for the Study of Korea, on 13-14, October., JMI , 2017.	International (within country)	2017-10-14	30	Paper Presented
23	Delivered Lectures on the topic Research Methodology Course for Ph.D. students in Social Science	HBN Garwal University lecture, International	National	2015-02-14	240	Resource Person
24	Probabilistic seasonal streamflow Forecasts of the Citarum river, Indonesia, Based on GCM data	IGU (International Geographical Union)	International (within country)	2016-03-18	30	Paper Presented
25	Presented paper on Environmental Clearance for POSCO:	International Conference, organized by JNU and Researchers' Association for the	International (within country)	2014-03-21	30	Paper Presentation in Seminar

	Reasons for	Study of Korea, on				
	almost one	21-22, March.				
	decade of delay	2014.				
26	Invited speaker	Refresher Course in	National	25.11.2021	90	Resource
	as a resource	Central				Person
	person	University of Jhar				
	Refresher	khand,				
	Course in	Environmental				
	Environmental	Studies & Disaster				
	Studies &	Management on				
	Disaster	17.11.2021 to				
	Management	30.11.2021				
27	Invited speaker	Refresher Course in	National	26.7.2022	90	Resource
	as a resource	UGC- Human				Person
	person	Resource				
	Refresher	Development				
	Course, Topic:	Centre, Jamia				
	"Climate	Millia Islamia,				
	variability and	New Delhi, on				
	hydrometeorol	22.7.2022 to				
	ogical	4.8.2022				
20	disasters"		T	24.02.2022	0.0	2
28	Invited speaker	Topic:	International	24.02.2022	90	Resource
	as a resource	"Environmental				Person
	person, Theme:	impact assessment				
	"Circular	for sustainable				
	Economy &					
	Green	University Sains				
	for Sustainable	Malaysis, Penang,				
	City"	dated on 24 02 2022				
20	Invited speaker	Topic:	International	10.09.2022	90	Pasourca
29	as a resource	"Are we becoming	International	10.09.2022	90	Person
	nerson on a	greedy-role of				1 015011
	training course.	awareness of				
	"Solid Waste	citizens in FIA"				
	Management					
	for the Clean	Pokhara				
	Environment	University				
	Sustainable	Dhugepatan.				
	Development	Pokhara-30. Nepal.				
	and	Dated on				
	Governance &	10.09.2022				
	Water					
	Environmental					
	Sustainability."					
30	Invited speaker	Topic: 'Indo-Pacific	National	13.08.2022	90	Resource
	as a resource	Climate Variability				Person
	person, Theme:	and				
	"Advanced					

	Geospatial Technologies for Disaster Risk Reduction (DRR)."	Hydrometeorologic al Disasters'. Suresh Gyan Vihar University, Jaipur (Rajasthan), India. Dated on 13.08.2022				
31	Convenor	Geographical Dimensions of Sustainability and Recovery: Social, Cultural, and Environmental Dimensions. Dated on 3-4 Oct, 2023, University of Delhi	International Conference (within country)	3-4 Oct, 2023	30	Convenor
32	Invited Speaker Topic: Climate Change and Himalayan Dilemma	Centre for Himalayan Studies- International Collaboration Seminar: Himalayan Geosystem: Society and Sustainability. University of Delhi, Dated on 24 May,2024	International Seminar (within country)	24 May, 2024	30	Invited Speaker
33	Co-organizer	Climate Change Conclave- Inception, Implementation and Impacts (C3I3) at IIT Delhi, Dated on: 27-28 May, 2024	Climate Change Conclave	27-28 May, 2024	30	Co- organizer

Conference Organization/ Presentations (in the last three years)

List against each head (If applicable)

Organization of a Conference

- AOGS 2021 Hydrological Science Session HS 25- sustainable water Management at the catchment scale in the context of climate variability and climate change.
- AOGS 2021 Atmospheric Sciences AS-17 Extreme Events: Observation and Modelling

Participation as Paper/Poster Presenter

• Participated in more than 25 paper presentations at the National and International Level.

• Delivered 12 Invited lectures

Research Projects (Major Grants/Research Collaboration)

- Stochastic analysis of rainfall variability in the Himachal Himalaya, R & D Project, University of Delhi, 2015
- Impact of Climate change on agriculture in the Chamba district of Himachal Pradesh, R &D Project, 2016.

Awards and Distinctions

- JSPS Postdoctoral Fellowship, Govt. of Japan from 2018-2020
- Japanese Government Scholarship (MEXT) from April 2009-Sept 2012.
- I have been awarded as the **Best Presenter** in JSCE (Japan Society for Civil Engineers) International Symposium on 26 August,2011.

Association With Professional Bodies

- 1. Secretary: Asia Oceania Geoscience Society-HS Session (2020-2024)
- 2. Memberships
 - Asia Oceania Geoscience Society (AOGS)
 - Japan Geophysical Union (JpGU)

Asahy

Signature of Faculty Member