

PROFORMA FOR BIO-DATA (to be uploaded)



1. Name and full correspondence address: **Professor Yaspal Sundriyal**
2. Email(s) and contact number(s): ypsundriyal@gmail.com, **Mobile: 9412079912**
3. Institution: **Department of Geology, H N B Garhwal University, Srinagar (Garhwal)**
4. Date of Birth: **08/04/1958**
5. Gender (M/F/T): **M**
6. Category Gen/SC/ST/OBC: **Gen**
7. Whether differently abled (Yes/No) : **No**
8. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution	% of marks
1.	B.Sc.	1981	Geology, Chemistry, Anthropology	Garhwal University, Srinagar (Garhwal) Uttarakhand	59.8
2.	M.Sc.	1983	Geology	Garhwal University, Srinagar (Garhwal) Uttarakhand	62.4
3.	Ph.D.	1998	Quaternary Geology	HNB Garhwal University, Srinagar (Garhwal)	Successfully awarded

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award/submission

Name of the Student	Title of Thesis	Guide's Name	Organization/ University	Year of award
Dr. Atul Kohli	Slope Stability Studies along Karanprayag Gwaldam road, Garhwal Himalaya, Uttaranchal, India	Prof. Y. P Sundriyal Dr. R. Anabalgan	HNB Garhwal University	2009
Dr. (Ms). Shipra Chaudhary	Late Quaternary Evolution of Alaknanda Valley in the vicinity of North Almora Thrust, Garhwal Himalaya	Prof. Y.P Sundriyal Dr.Pradeep Srivastava	HNB Garhwal University	2011
Dr. Yogesh Ray	Late Quaternary Aggradation and Incision phases in Upper reaches of Ganga River system: Implications to climate- tectonic interaction	Dr. Pradeep Srivastava Prof. Y.P. Sundriyal	HNB Garhwal University	2011
Dr. (Ms). Ruchika Tandon	An integrated study of physical, mechanical and acoustic properties of rocks of the Bhagirathi and Alaknanda valleys and their inter relationship	Dr. Vikram Gupta Prof. Y.P Sundriyal	HNB Garhwal University	2011
Dr. Deba Prasad Sahoo	Neotectonic- Active tectonics of frontal Siwalik range and Soan dun in Himachal Pradesh, NW Himalaya	Dr. V.C Thakur Prof. Y.P Sundriyal	HNB Garhwal University	2012
Dr. (Ms). Poonam Jalal	Source sink relationship of Neogene sandstone from Ram Ganga sub basin and its correction with the other sub basins of Himalayan Foreland	Prof. Y.P Sundriyal Dr. Sumit Ghosh	HNB Garhwal University	2013
Dr. (Ms). Vyshnavi S	Weathering history of granitic and basaltic rocks in parts of Garhwal Himalaya	Dr. Rafiqul Islam Prof. Y. P Sundriyal	HNB Garhwal University	2013
Dr. Mayank Joshi	Climate-tectonic interaction in the morphogenic evolution of the Ravi River basin in Chamba region Western Himachal Pradesh, NW Himalaya	Dr. V.C Thakur Prof. Y.P Sundriyal	HNB Garhwal University	2014
Dr. Manmohan Singh Rawat	Geoenvironmental studies in a part of East Sikkim with special reference to landslide	Prof. Y.P Sundriyal	HNB Garhwal University	2015
Dr. (Ms). Pinkey Bisht	Late Quaternary Glaciation in the Dhauliganaga Valley and its Implications Towards Past Climate Variability	Prof. Y.P Sundriyal Dr. Navin Juyal	HNB Garhwal University	2016

Dr. (Ms). Dipti Sharma	Reconstruction of paleoclimate using paleolandslides (Alaknanda valley) and peat deposits of Kedrnath (Mandakini Valley), Garhwal Hiamalya	Prof. Y.P Sundriyal Dr. Pradeep Srivastava	HNB Garhwal University	2017
Dr. Rakesh Singh	Source characterization of the seismicity in the Garhwal Himalaya and its manifestation in the study area	Prof. Y.P Sundriyal Dr. Ajay Paul	HNB Garhwal University	2018
Dr. Vipin Kumar	Landslide susceptibility zonation and slope stability analysis between Moorang and Rampur Satluz Valley, Himachal Pradesh	Dr. Vikram Gupta Prof. Y.P Sundriyal	HNB Garhwal University	2019
Dr. (Ms). Poonam	The late Pleistocene landscape of Zanskar river valley (Ladakh Himalaya): Implication to sediment storage and river connectivity	Prof. Y.P Sundriyal Dr.Pradeep Srivastava	HNB Garhwal University	2019
Dr. (Ms). Neeraj Ramola	Large-scale engineering geological and geotechnical mapping of Kali Ganga and Mandakini Valley	Prof. Y.P Sundriyal Dr. Vikram Gupta	HNB Garhwal University	2021
Dr. Ashish Rawat	Structure and Petrofabric Analysis of Garhwal Nappe in the Lansdowne: Implication Towards Kinematic Evolution	Prof. Y.P Sundriyal and sayan Deep banajee	HNB Garhwal University	2022
Dr. Sandeep Kumar	Role of Lithology in Landslide Distribution and Dynamic Slope Stability of Active Landslide in Goriganga River Valley	Dr. Vikram Gupta and Prof. Y.P Sundriyal	HNB Garhwal University	2022
Ms. Shravi Agarwal	Holocene and Historical Record of Palaeoenvironment and Extreme Events Using Diatoms and River Morphology"	Prof. Y.P. Sundriyal and Prof. Pradeep Srivastava	HNB Garhwal University	2023 Viva to be conducted
Mr. Firoz Khan	Late-Pleistocene to Holocene Paleoclimatic Records From Baspa Valley and Chakrata North West Himalaya, India	Prof. Y.P. Sundriyal and Dr. N. K. Meena	HNB Garhwal University	A thesis submitted in 2022

On Going (Registered w.e.f. July /August 2020)

Name	Title of Thesis	Name of Supervisors	Status
Ms. Neha Chauhan	"Geomorphological and Climatic Implication of Alluvial Fan and	Prof. Y.P. Sundriyal and A. D. Shukla	Fieldwork and laboratory work

	Debris Flow in the Monsoon Dominated Alaknanda Valley, Central Himalaya"		completed and the manuscript was submitted after revision in the International Journal
Ms. Sameeksha Kaushik	Late Quaternary Landform Evolution and Their Climatic Implications from Monsoon Dominated Dhauliganga valley, Central Higher Himalaya, Uttarakhand.	Prof. Y. P. Sundriyal and Dr. Naresh Rana	Fieldwork and laboratory work completed and the manuscript was submitted after revision in the International Journal
Mr. Atul Brice	"Active Tectonics and Landform Evaluation Along the Frontal Thrust Belts of Darjeeling Himalaya"	Prof. Y. P. Sundriyal and Dr. R. J. Perumal	Fieldwork and laboratory work completed and the manuscript is submitted to the International Journal

10. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To	Pay Scale
1.	Lecturer (ad hoc) in Scale	HNB Garhwal University, Srinagar (Garhwal)	1/9/1986	31/3/1990	700-1600
2.	Lecturer	HNB Garhwal University, Srinagar (Garhwal)	24/4/1990	23/4/1999	2200-4000
3.	Reader	HNB Garhwal University, Srinagar (Garhwal)	24/4/1999	23/04/2007	12000-18300
4	Professor	HNB Garhwal University, Srinagar (Garhwal)	24/4/2007	continue	Pay band 14

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1.	Awarded Best Poster award	XII International Symposium on Antarctic Earth Sciences (13-17 July 2017) at NIO	2017

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12. Publications (*List of papers published in SCI Journals, in year-wise descending order*).
(**Publication of Last 10 Years**)

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Kumar, V., Sundriyal, Y., Chauhan, N., Puniya, M.K., Kaus hik, S., Kumar, S., Bagri, D.S., Rana, N.	Ascertainin g potential causes of hillslope failure associated to human settlement; a case study from Alaknanda valley, Uttarakhand , NW Himalaya, India,	<i>Journal of Geological Society of India</i>	Accepted in Press		2023
2.	Sundriyal, Y., Kumar, V., Chauhan, N., Kaushik, S., Ranjan, R., & Punia, M. K.	Brief communicat ion on the NW Himalayan towns; slipping towards potential disaster.	<i>Natural Hazards and Earth System Sciences</i>	Accepted		2023
3.	Sundriyal, Y., Kumar, V., Khan, F., Puniya, M.K., Kaus hik, S., Chauha n, N., Bagri, D.S., Rana, N.	Impact of potential flood on river banks in extreme hydro- climatic events, NW Himalaya	<i>Bulletin of Engineering Geology and the Environment</i>	Accepted		2023
4.	S. P. Sati, Maria Asim, Y.	Unstable slopes and threatened	<i>Current Science</i>	124	Accepted In press (proofrea	2023

	P. Sundriyal, Naresh Rana, Vijay Bahuguna and Shubhra Sharma*	livelihoods of the historical Joshimath town, Uttarakhand Himalaya, India			ding completed)	
5.	Shravi Agarwal, Sunil Kumar Shukla, Pradeep Srivastava, Yaspal Sundriyal	Peat sequence diatoms from Kedarnath, Central Himalaya, used to reconstruct mid-late Holocene hydroclimatic conditions	<i>Palaeogeography, Palaeoclimatology, Palaeoecology</i>		111381	2023
6.	SP Sati, Shubhra Sharma, Girish Ch Kothyari, Maria Asim, YP Sundriyal, Kapil Malik, Ayush Joshi, Harsh Dobhal, Naresh Rana, Navin Juyal	Mountain highway stability threading on the fragile terrain of upper Ganga catchment (Uttarakhand Himalaya), India	<i>Journal of Mountain Science</i>	19 (12)	3407-3425	2022
7.	S Agarwal, Y Sundriyal, P Srivastava Science 131 (4), 263	Dam in Himalaya induces geomorphic disconnectivity during the extreme hydrological event: Evaluating a case of the	<i>Journal of Earth System Science</i>	131(4)	263-272	2022

		2013 Kedarnath Disaster				
8.	M Joshi, VC Thakur, N Suresh, YP Sundriyal	Climate- tectonic imprints on the Late Quaternary Ravi River Valley Terraces of the Chamba region in the NW Himalaya	<i>Journal of Asian Earth Sciences</i>	223	104990	2022
9.	F Khan, NK Meena, Y Sundriyal, R Sharma	"Indian summer monsoon variability during the last 20 kyr: Evidence from peat record from the Baspa Valley, northwest Himalaya, India"	<i>Journal of Earth System Science</i>	131 (3)	164-172	2022
10.	Girish Ch Kothari, Neha Joshi, Ajay Taloor, Kapil Mali k, Rakesh Dumka, S.P.Sati, Y.P.Sundr iyal	Reconstructi on of active surface deformation in the Rishi Ganga basin, Central Himalaya using PSInSAR: A feedback towards understandi ng the 7th February 2021 Flash Flood	<i>Advances in Space Research</i>	69 (4)	1894- 1914.	2022
11.	Choudhuri mayum Pankaj Sharma, Poonam	"Late Pleistocene– Holocene flood history,	<i>GSA Bulletin</i>	134 (1-2)	275-292.	2022

	Chahal, Anil Kumar, Saurabh Singhal, YP Sundriyal, Alan D Ziegler, Rajesh Agnihotri, Robert J Wasson, Uma Kant Shukla, Pradeep Srivastava	flood- sediment provenance, and human imprints from the upper Indus River catchment, Ladakh Himalaya"				
12.	Shubhra Sharma, SP Sati, N Basaviaha, Shilpa Pandey, YP Sundriyal, Naresh Rana, Priyanka Singh, Subhendu Pradhan, AD Shukla, R Bhushan, Rakesh Bhatt, Navin Juyal	"Mid to late Holocene climate variability, forest fires and floods entwined with human occupation in the upper Ganga catchment, India.	<i>Quaternary Science Reviews</i>	293 (4)	107725	2022
13.	A Rawat, S Banerjee, Y Sundriyal, V Rana	An integrated assessment of the geomorphic evolution of the Garhwal synform: Implications for the relative tectonic activity in the southern part of the	<i>Journal of Earth System Science</i>	131 (1)	1-25	2022

		Garhwal Himalaya				
14.	N.Rana, Y.P. Sundriyal, S. Sharma, F. Khan, S. Kaushik, P. Chand, D.S. Bagri, S. P. Sati and N. Juyal	Hydrological Characteristics of 7th February 2021 Rishi Ganga Flood: Implication towards Understanding Flood Hazards in Higher Himalaya	<i>Geological Society of India</i>	97 (8),	827-835	2021
15.	N. Rana, S.Sharma, Y.P.Sundriyal, S. Kaushik, S.Pradhan, G. Tiwari, Firoz Khan, SP Sati, N.Juyal	A preliminary assessment of the 7th February 2021 flashflood in lower Dhauli Ganga valley, Central Himalaya, India	<i>Journal of Earth System Science</i>	130(2)	1-10	2021
16.	N Ramola, Y P Sundriyal, MK Puniya, V Gupta	Large scale geological mapping and slope stability analysis of the pilgrimage route between Sonprayag and Kedarnath, Uttarakhand, India	<i>Himalayan geology</i>	42(1)	163-174	2021
17.	Sandeep Kumar, Vikram Gupta,	Coseismic landslide hazard assessment	<i>Bulletin of Engineering Geology and the Environment</i>	volume 80	5219–5235	2021

	Parveen Kumar, YP Sundriyal	for the future scenario earthquakes in the Kumaun Himalaya, India				
18.	A Rawat, MPS Bisht, YP Sundriyal, S Banerjee, V Singh	Assessment of soil erosion, flood risk and groundwater potential of Dhanari watershed using remote sensing and geographic information system, district Uttarkashi, Uttarakhand	<i>Journal of Applied Water Science</i>	11(7)	1-13	2021
19.	Choudhuri mayum Pankaj Sharma, Poonam Chahal, Anil Kumar, Saurabh Singhal, YP Sundriyal, Alan D Ziegler, Rajesh Agnihotri, Robert J Wasson, Uma Kant Shukla, Pradeep Srivastava	Late Pleistocene–Holocene flood history, flood-sediment provenance and human imprints from the upper Indus River catchment, Ladakh Himalaya	<i>Geological Society of America Bulletin</i>	134 (1-2),	275-292	2021
20.	AD Ziegler, RJ Wasson,	A call for reducing	<i>Environmental Hazards,</i>	https://doi.org/10.1080/17477	1-28	2021

	Y Sundriyal, P Srivastava, G Sasges, SJ Ramchunde r, CE Ong, SK Nepal, BG McAdoo, J Gillen, D Bishwokar ma, A Bhardwaj, M Apollo	tourism risk to environmenta l hazards in the Himalaya		891.2021.1984 196		
21.	S Sharma, SP Sati, Y P Sundriyal, H Dobhal	The 23rd April'21 Snow Avalanche, Girithi Ganga post the 7th February'21 Rishi Ganga Flash Flood: Are these Events Linked to Climate Warming in the Western Himalaya?	<i>Journal of the Geological Society of India</i>	97 (9),	975-979	2021
22.	A Rawat, S Banerjee, Y Sundriyal	Geomorphol ogical and Statistical Assessment of Tilt-Block Tectonics in the Garhwal Synform: Implications for the Active Tectonics, Garhwal Lesser Himalaya,	<i>Geosciences</i>	11 (8)	1-16	2021

		India				
23.	Shubhra Sharma, SP Sati, YP Sundriyal , Vikram Sharma, Harsh Dobhal	Quest for disaster-resilient roads in the Himalaya.	<i>Current science</i>	124 (11)	1399-1401	2021
24.	SP Sati, S Sharma, YP Sundriyal , D Rawat, M Riyal	Geo-environmental consequences of obstructing the Bhagirathi River, Uttarakhand Himalaya, India	<i>Geomatics, Natural Hazards and Risk</i>	11 (1)	887-905	2020
25.	P Chahal , A Kumar, PC Sharma, YP Sundriyal , P Srivastava	A PRELIMINARY ASSESSMENT OF THE GEOLOGICAL EVIDENCE OF THE MEGA FLOODS IN THE UPPER ZANSKAR CATCHMENT, NW HIMALAYA	<i>Journal of the Palaeontological Society of India</i>	65(1)	64-72	2020
26.	V Kumar, V Gupta, YP Sundriyal	Spatial interrelationships of landslides, litho-tectonics, and climate regime, Satluj valley,	<i>Geological Journal</i>	54 (1)	537-551	2019

		Northwest Himalaya				
27.	Alok Bhardwaj, Robert J Wasson, Alan D Ziegler, Winston TL Chow, Yas Pal Sundriyal	Characteristics of rain-induced landslides in the Indian Himalaya: A case study of the Mandakini Catchment during the 2013 flood	<i>Geomorphology</i>	330	100-115	2019
28.	P Chahal, A Kumar, CP Sharma, S Singhal, YP Sundriyal, P Srivastava	Late Pleistocene history of aggradation and incision, provenance and channel connectivity of the Zaskar River, NW Himalaya	<i>Global and Planetary Change</i>	178	110-128	2019
29.	Rakesh Singh, Ajay Paul, Arjun Kumar, Parveen Kumar, YP Sundriyal	Estimation and applicability of attenuation characteristics for source parameters and scaling relations in the Garhwal Kumaun Himalaya region, India	<i>Journal of Asian Earth Sciences</i>	159	42-59	2018
30.	S Kimothi, N Ramola, D.S. Bagri and YP Sundriyal	Kinematic analysis of lopes between Preng and Ganderbal, as Jammu and Kashmir	<i>Journal of Himalayan Geology</i>	39 (1)	85-91	2018

		Himalaya, India				
31.	Pradeep Srivastava, A Kumar, S Chaudhary, N Meena, Y P Sundriyal , S Rawat, N Rana, RJ Perumal, P Bisht, D Sharma, R Agnihotri, D S Bagri , N Juyal, RJ Wasson, AD Ziegler	"Paleofloods records in Himalaya"	Geomorphology	284	(17-30).	2017
32.	Rajesh Agnihotri, AP Dimri, HM Joshi, NK Verma, C Sharma, J Singh, YP Sundriyal	Assessing operative natural and anthropogeni c forcing factors from long-term climate time series of Uttarakhand (India) in the backdrop of recurring extreme rainfall events over northwest Himalaya	Geomorphology	284	(31-40).	2017
33.	Poonam , Naresh Rana, Pinkey Bisht , Dhirendra Singh Bagri , Robert James	Identification of landslide- prone zones in the geomorphical ly and climatically sensitive Mandakini valley,	Geomorphology	284	(41-52).	2017

	Wasson, Yaspal Sundriyal	(central Himalaya), for disaster governance using the Weights of Evidence method				
34.	Pinkey Bisht, S Nawaz Ali, Naresh Rana, Sunil Singh, Y P Sundriyal, DS Bagri, Navin Juyal	Pattern of Holocene glaciation in the monsoon-dominated Kosa Valley, central Himalaya, Uttarakhand, India"	<i>Geomorphology,</i>	284	130-141	2017
35.	P Srivastava, R Agnihotri, D Sharma, N Meena, YP Sundriyal, A Saxena, Ravi Bhushan, R Sawlani, Upasana S Banerji, C Sharma, P Bisht, N Rana, R Jayangonda perumal	"8000-year monsoonal record from Himalaya revealing reinforcement of tropical and global climate systems since mid-Holocene"	<i>Scientific reports</i>	7 (1)	14515; doi:10.1038/s41598-017-15143-9	2017
36.	S Sharma, P Chand, P Bisht, AD Shukla, SK Bartarya, Y P Sundriyal and Navin Juyal	Factors responsible for driving the glaciation in the Sarchu Plain, eastern Zaskar Himalaya, during the late	<i>Journal of Quaternary Science</i>	31 (5),	495-511	2016

		Quaternary				
37.	N Rana, S Singh, Y.P. Sundriyal, GS Rawat, N Juyal	"Interpreting the geomorphometric indices for neotectonic implications: An example of Alaknanda valley, Garhwal Himalaya, India"	<i>Journal of Earth System Science</i>	125 (4)	841-854	2016
38.	N Rana, SP Sati, Y.P. Sundriyal, N Juyal	"Genesis and implication of soft-sediment deformation structures in high-energy fluvial deposits of the Alaknanda Valley, Garhwal Himalaya, India"	<i>Sedimentary Geology</i>	344	263-276	2016
39.	Bisht, P., Ali S. N., Shukla A.D., Negi, S., Sundriyal, Y. P. and Juyal N.	"Chronology of late Quaternary glaciation and landform evolution in the upper Dhauliganga valley,(Trans Himalaya), Uttarakhand, India"	<i>Quaternary Science Reviews</i>	129	129, 147-162.	2015
40.	Sundriyal, Y. P., Shukla, A. D., Rana, N., Jayangonda	Terrain response to the extreme rainfall event of June 2013: Evidence	<i>Episodes</i>	38 (3)	179-188.	2015

	perumal, R., Srivastava, P., Chamyal, L. S., Sati, S. P. and Juyal, N.	from the Alaknanda and Mandakini River Valleys, Garh wal Himalaya, India"				
41.	Chaudhary , S., Shukla, U K., Sundriyal, Y. P., Srivastava, P. and Jalal, P.	Formation of paleovalleys in the Central Himalaya during valley aggradation	<i>Quaternary International,</i>	371	254-267	2015
42.	Vyshnavi, S., Islam, R., and Sundriyal Y.P. (2015)	"Role of physical and chemical weathering in development of soil profile in the Garhwal Lesser Himalaya"	<i>Journal of Himalayan Geology</i>	36 (2)	111-117	2015
43.	S. Vyshnavi, R. Islam, and Y. P. Sundriyal	Comparative study of soil profiles developed on metavolcanic (basaltic) rocks in two different watersheds of Garhwal Himalaya.	<i>Current Science,</i>	108(4)	699-707	2015
44.	Alan D. Ziegler, Robert J. Wasson, Alok Bhardwaj, Y. P. Sundriyal, S. P. Sati,	Pilgrims, progress, and the political economy of disaster preparedness – the example of the 2013	<i>Hydrological Processes</i>	28 (24)	5985- 5990.	2014

	Navin Juyal, Vinod Nautiyal, Pradeep Srivasatava, Jamie Gillen and Udisha Saklani:	Uttarakhand flood and Kedarnath disaster.				
45.	Sarswati Prakash Sati , Sheikh Nawaz Ali, Naresh Rana, Falguni Bhattacharya, Ravi Bhushan, Anil Dutt Shukla, Yaspal Sundriyal , Navin Juyal	Timing and extent of Holocene glaciations in the monsoon dominated Dunagiri valley (Bangni glacier), Central Himalaya, India.	<i>Journal of Asian Earth Sciences</i> ,	91	125-136.	2014
46.	Wasson, R. J., Sundriyal, Y.P., Chaudhary, S. , Jaiswal, M.K., Morthekai, P., Sati, S.P., Juyal, N.	A 1000-year history of large floods in the Upper Ganga catchment, central Himalaya, India”	<i>Quaternary Science Reviews</i>	77	156-166.	2013
47.	Srivastava, P., Kumar, A., Mishra, A., Meena, N. K., Tripathi J. K., Sundriyal, Y. P. , Agnihotri, R., Gupta,	“Early Holocene monsoonal fluctuations in the Garhwal higher Himalaya as inferred from multi-proxy data from the	<i>Quaternary Research</i>	80	447-458	2013

	A. K.	Malari paleolake				
48.	Rana, N., Singh, S., Sundriyal, Y.P., Juyal, N,	"Recent and past floods in Alaknanda Valley: causes and consequences	<i>Current Science</i>	105 (9)	1209-1213.	2013

Name in Bold affiliated with HNBGU

13. Detail of patents.

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
NIL	NIL	NIL	NIL	NIL	NIL	NIL

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Analysis of Land Use/Land Cover Mapping for Sustainable Land Resources Development of Hisar District, Haryana, India	BS Chaudhary, R Rani, S Kumar, YP Sundriyal, P Kumar Remote Sensing and GIScience, 151-165	Springer	2021
2.	Ashish Rawat, M. P. S. Bisht, Y. P. Sundriyal, Pranaya Diwate, and Swapnil Bisht (2021)	Prioritization and Quantitative Assessment of Dhundsir Gad Using RS and GIS: Implications for Watershed Management, Planning and Conservation, Garhwal Himalaya, Uttarakhand	In Geospatial Technology for Landscape and Environmental Management Sustainable Assessment and Planning, Editors Praveen Kumar Rai, Varun Narayan Mishra, and Prafull Singh. pp 165-189. Publisher Springer	2021
3.	Rivers in the Himalaya: Responses to neotectonics and past climate	P SRIVASTAVA, Y RAY, B PHARTIYAL, YP Sundriyal	Proceedings of the Indian National Science Academy 82 (3), 763-772 Indian National Science Academy,	2016

			Bahadur Shah Zafar Marg, New Delhi-110002	
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Research Projects:

A. Completed

1. "Comparative Geoenvironmental Investigation in Dewalgarh gad and Bachchan gad catchment, Garhwal Himalaya" sponsored by Ministry of Environment and Forest, Govt. of India. (March, 2000, COST 15.00 lakhs).
2. Geological- Geotechnical investigations and Monitoring of Buyang Landslide in Mandakini Valley of Garhwal Himalaya" sponsored by DST, Govt. of India. (May 2006 – April 2008 cost 14.00 lakhs).
3. Geomorphology and sedimentation history of Alaknanda valley between Saknidhar thrust and Alaknanda Fault, Lesser Central Himalaya" sponsored by DST, Govt. of India (May 2008 – October 2011, Cost 34. 00 Lakhs).
4. "Tectono Geomorphic Evolution of Alaknanda Valley between Alaknanda Fault and Main Central Thrust" sponsored by DST, Govt. of India (September 2011 to 2014, Cost 34.60 lakhs).
5. "Geological documentation of the damages in Alaknanda and Mandakini Valley during the flash flood of 17th June 2013 and to suggest geological, geomorphological and geotechnical remedial measures to minimize the losses in future sponsored by DST, Govt. of India (October 2013 to September 2015, cost 13.00 lakhs).
6. "Map the Neighborhood in Uttarakhand (MANU): Study area Mandakini Valley" sponsored by DST, Govt. of India (26.09.2013 to 31.03.2015, cost 24.40 lakhs).
7. "Map the Neighborhood in Uttarakhand (MANU): Study area Alaknanda Valley" sponsored by DST, Govt. of India (26.09.2013 to 31.03.2015, Cost 24.40 lakhs).
8. "Risk zonation mapping of Mandakini valley with special reference to Geological and Geotechnical analysis of Byung subsidence zone and Jaggi-Bagwan landslide, Central Garhwal Himalaya" sponsored by DST, Govt. of India (May 2013 to August 2017, 30.34 lakhs).
9. "Large scale Geological and Geotechnical mapping of vulnerable landslide zone along Sonprayag to Kedarnath and to suggest the preventive measure". Sponsored by DST Govt of India Grant (January 2016 to November 2018, Rs. 17.60 lakhs).

B. Ongoing:

1. " Assessment of Impact of Climate Change on the Geodiversity of Uttarakhand Himalaya for five More Disaster-prone Districts of Uttarakhand including Vulnerability and Risk Assessment: Implication for Sustainable Development and Policy Making" Sponsored by Climate Change Division, DST, Government of India (Date of commencement 5/10/2020 till 31/10/2023 Cost Rs. **2,06,33,607.**

15. **Invited Online Lecture**

More than 30 invited lectures delivered in UGC HRDC orientation and refresher courses and at various Institutions

16. **Field Training Program**

1. Five days of training workshops for Ph.D. pursuing students for Geological and Geo-technical Mapping of Landslide and Potential Vulnerable Zone from 21st to 25th December 2017. Sanction order number vide NRDMS/02/61/017 funded by Ministry of Science and Technology Govt. of India Total budget Rs. 4.57 lakhs
2. 17 days Field workshop organized on "Transit across Chandigarh- Manali-Leh- Panamik: Traversing Indian Plate to South Eurasian Plate" Understanding Tectonic Framework, Plate Tectonic Evaluation and Quaternary sequence of India from August 21 to September 6, 2013. For Ph.D. students. Sponsored by DST. Budget 26.75 lakhs. Organized at Himachal to Ladakh Himalaya.

17. **Honor and Recognition**

1. **Member of the National Level Standing Committee (NLC)** for Inspire Internship component of Inspire Program by the Department of Science and Technology, Govt. of India vide a letter dated May 2018 till date.
2. **Member of the expert committee of the coordinated Programme on "Landslide Hazard Mitigation"** Department of Science and Technology Government of India vides letter number NRDMS/11/092/2005 Dated 18/01/2019.
3. **A member of the expert committee** (as Co-opted member) for the scheme of Young Scientist, Earth, and Atmospheric Science vide letter No. SB/S9/Z-14/2015-VII from **2015 to 2018**.
4. **Member of the Performance Review Committee** for Earth and Atmospheric Science Under Inspire Faculty Program vide letter Number DST/INSPIRE/Faculty/ Performance Review Committee vide letter Dated 01/11/2022.
5. **Member of the expert committee** for the selection of Geologists/ scientists and equivalent posts in various state and central government organizations.

Declaration

I hereby declare that the above information is correct to the best of my knowledge



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Dated 5/4/23