

Kumaun University, Nainital
Curriculum Vitae

Name : Dr. Nandan Singh
Designation : Assistant Professor (Guest Faculty)
Department : Forestry

Contact Information

- Email Address : nandansingh@kunainital.ac.in
- Mobile No : +919837176040

LinkedIn Profile (Optional) : [linkedin.com/in/dr-nandan-singh-mahra-8280271a2](https://www.linkedin.com/in/dr-nandan-singh-mahra-8280271a2)

ORCID ID : <https://orcid.org/0000-0001-6307-8997>

Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=57209552726>

Vidwan ID : <https://vidwan.inflibnet.ac.in/profile/508109>

Educational Qualification

Degree	University	Subjects	Year
Graduation	Kumaun University	Forestry, Botany, Zoology	2008
Post-graduation	Kumaun University	Forestry	2010
B. Ed.	Kumaun University	Science Group	2012
Ph. D.	Kumaun University	Forestry	2020

Work Experience

Position	Department	University/Organization	Year
Guest Faculty	Department of Forestry	Kumaun University	12/11/2020 to Present
Project Assistant	Department of Forestry	Kumaun University	24/09/2017 to 12/11/2020
Senior Research Fellow	Department of Forestry	Kumaun University	23/12/2015 to 31/03/2017
Senior Research Fellow	Department of Forestry	Kumaun University	1/11/2013 to 31/03/2015
Senior Research Fellow	Crop Production Division	Vivekananda Parvatiya Krishi Anusandhan Sansthan	23/01/2012 to 26/12/2012
Assistant Manager	Research & Development	Wimco Limited (Division: Wimco Seedling)	1/11/2010 to 21/01/2012

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Departmental Coordinator	Management	IQAC, Kumaun University, Nainital	2024

Assistant Superintendent for Sessional Examination	Member	Examination Cell, D. S. B. Campus, Kumaun University, Nainital	2020 - 2024
Member	Management	Kumaun University Innovation and Incubation Centre (KU-IIC), Nainital	2021 - 2024
Member	Management	Unnat Bharat Abhiyan (UBA) Programme, Kumaun University, Nainital	2021 - 2024
Member	Management	Central Examination Evaluation Cell, Kumaun University, Nainital	2023-2024
Member	Management	Admission Committee, B. Sc. Forestry, Department of Forestry, D.S.B. Campus, Kumaun University, Nainital	2021-2023
Member	Management	Admission Committee, M. Sc. Forestry, Department of Forestry, D.S.B. Campus, Kumaun University, Nainital	2020-2023
Member	Management	Admission Committee, M. Sc. Environmental Science, Department of Forestry, D.S.B. Campus, Kumaun University, Nainital	2020-2023
Member	Management	Admission Committee, Post Graduate Diploma in Mountain Ecosystem & Climate Change, Department of Forestry, D.S.B. Campus, Kumaun University, Nainital	2020-2023
Member	Management	Admission Committee (Bio Group), D.S.B. Campus, Kumaun University, Nainital	2021-2022

Research Interests

My primary research interests encompass the intricate domains of tree eco-physiology, seed science, climate change, tree phenology, and phytosociological analysis of vegetation with over 12 years dedicated to research endeavors in these specialized areas, I have published 27 research articles and 07 insightful books chapters.

Publications

a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
Nandan Singh, Ashish Tewari, Shruti Shah and Amit Mittal	Phenology and water relations of treeline species of Western Himalaya, India.	Brazilian Journal of Botany https://doi.org/10.1007/s40415-024-00989-x .	2024

Nandan Singh , Ashish Tewari, Shruti Shah and Amit Mittal	Seasonal water relations and stress tolerance of <i>Quercus semecarpifolia</i> (Smith) in treeline areas of Western Himalaya, India.	Vegetos, https://doi.org/10.1007/s42535-023-00665-7 . Impact Factor –	2023
Sandeep Kumar Sunori, Amit Mittal, Nandan Singh , Mehul Manu and Pradeep Juneja	Fuzzy C-Means Clustering of Soil data Samples.	IEEE, https://doi: 10.1109/CONIT59222.2023.10205937	2023
Amit Mittal, Ashish Tewari, Nandan Singh , Krishna Kumar Tamta, Beena Tewari Fulara, Shruti Shah and Shomesh Sharma	Physiological Maturity Studies of <i>Myrica Esculenta</i> in Kumaun Himalaya Uttarakhand.	Current World Environment, 17 (2): 366-372	2022
Amit Mittal, Ashish Tewari, Nandan Singh and Shomesh Sharma	Patterns of Phenological Characteristics of Important Tree species of Kumaun Himalaya	Current World Environment, 16 (1): 151-157	2021
Nandan Singh , Ashish Tewari, Shruti Shah and Amit Mittal	Capsule Ripening and Seed Germination in <i>Rhododendron campanulatum</i> (D. Don) in Aali Treeline Area of Western Himalaya, India	Indian Journal of Ecology 48(2): 398-403	2021
Amit Mittal, Ashish Tewari, Nandan Singh and Shruti Shah	Assessment of Soil Seed Bank on Three Different Vegetation Types in Kumaun Central Himalayan Forest	Indian Journal of Ecology, 48(2): 381-386	2021
S. P. Singh, A. Bhattacharyya, Amit Mittal, Aseesh Pandey, Ashish Tewari, Avantika Latwal, Bency David, Bhupendra S. Adhikari, Devendra Kumar, G. C. S. Negi, Ishfaq Ahmad Mir, Krishna Kumar Tamta, Kumar Sambhav, Mayank Shekhar, Mohit Phulara, Munisa Manzoor, Nandan Singh , Pankaj Tewari, Parminder S. Ranhotra, Pradeep Singh, Pratap Dhaila, Priyanka Sah, Rahul Kumar, Rajesh Joshi, Ranbeer S. Rawal, Renu Rawal, Ripu Daman Singh, Shruti Shah, Subrat Sharma, Subzar Ahmad Nanda,	Indian Himalayan timberline ecotone in response to climate change – initial findings	Current Science, 120(5): 859-871	2021

Surabhi Gumber, Utsa Singh and Zafar Reshi			
Nandan Singh, Ashish Tewari and Shruti Shah	Treeline Species: Regeneration Status and Seedling Dynamics in Western Himalayan Region	Environment and Ecology 38 (3B): 725-732	2020
Amit Mittal, Nandan Singh, Ashish Tewari and Shruti Shah	Cone maturation timing and seed germination in <i>Pinus roxburghii</i> (Serg.) in the central Himalayan region of Uttarakhand, India	Ecology Environment & Conservation, 26(SI): S286-S290	2020
Amit Mittal, Nandan Singh and Ashish Tewari	Quantitative analysis and regeneration status of forest trees species in Kumaun central Himalaya	Indian Journal of Ecology (Scopus Journal), 47(2): 507-513	2020
Nandan Singh, Ashish Tewari and Shruti Shah	Catkin maturation timing and seed germination in <i>Betula utilis</i> (D. Don) in the western Himalayan treeline area of Uttarakhand	Journal of Advanced Scientific Research, 11(2): 145-151	2020
Jyotnsa, Ashish Tewari, Shruti Shah, Krishna Kumar Tamta and Nandan Singh	Fruit maturation and germination in <i>Ficus auriculata</i> Lour. A Lesser-known multipurpose tree species in Kumaun Himalayan Region	Ecology Environment & Conservation, 26(1): 142-147	2020
Ashish Tewari, Shruti Shah, Nandan Singh, Krishna Kumar Tamta and Amit Mittal	Acorn Maturation and Regeneration Problem in <i>Quercus Semecarpifolia</i> Sm. in Himalayan Treeline	International Journal of Scientific & Technology Research, 8(11): 3781-3787	2019
Nandan Singh, Ashish Tewari, Shruti Shah and Amit Mittal	Water Relations and Phenological Events of two Treeline Rhododendron species in Indian Western Himalaya	Sylwan, 163(10): 164-176	2019
Nandan Singh, Ashish Tewari and Shruti Shah	Tree Regeneration Pattern and Size Class Distribution in Anthropogenically Disturbed Sub-Alpine Treeline Areas Of Indian Western Himalaya	International Journal of Scientific & Technology Research, 8(8): 537-546	2019
Nandan Singh and Amit Mittal	Response of phenological events of <i>Aesculus indica</i> Colebr. to climate change along an altitudinal gradient in Kumaun Himalaya, Uttarakhand	International Journal of Environment, 8(1): 1-16	2018
Ashish Tewari, Shruti Shah, Nandan Singh and Amit Mittal	Treeline species in Western Himalaya are not water stressed: a comparison with low elevation species	Tropical Ecology, 59(2): 313-325	2018
Kamini Tamta and Nandan Singh	Seed ripening indication in <i>Quercus leucotrichophora</i> A. Camus, in Kumaun, Central Himalayan region	International Journal of Advanced Research and Development. 3(4): 49-52	2018
Kamini Tamta, Jeet Ram and Nandan Singh	Variation in plant biomass of Oak and Pine forest grazing lands in temperate Central Himalaya, India	International Journal of Advanced Research and Development. 3(4): 34-39	2018
Ashish Tewari, Amit Mittal and Nandan Singh	Seed maturation timing in <i>Quercus leucotrichophora</i> A. camus along an altitudinal gradient in Uttarakhand Himalaya	Environment Conservation Journal, 18(3): 53-59	2017

Amit Mittal, Ashish Tewari and Nandan Singh	Indicator of seed maturation in <i>Cornus macrophylla</i> wall. in Kumaun Himalayan, Indian.	Journal of Environment and Bio – Science, 31(1): 69-73	2017
Ashish Tewari, Jitendra Bhatt, Amit Mittal, Nandan Singh and Krishna Kumar Tamta	Regeneration issues and indicators of seed maturity in <i>Mallotus philipensis</i> muel. Arg. in the tropical Forests of Uttarakhand.	Ecology Environment & Conservation, 22 (2): 767-773	2016
Ashish Tewari, Shruti Shah, Nandan Singh and Krishna Kumar Tamta	<i>Diploknema butyracea</i> (Roxb.) Lamb.: A viable livelihood option for hill communities of Central Himalaya Region	International Journal of Recent Scientific Research, 6(3): 3937-3940	2015
Nandan Singh , Jeet Ram, Ashish Tewari and R. P. Yadav	Phenological events along the elevation gradient and effect of climate change on <i>Rhododendron arboreum</i> Sm. in the Kumaun Himalaya	Current Science, 108(1): 106-110	2015
Nandan Singh	Flowering phenology of tree <i>Rhododendron arboreum</i> along an elevation gradient in different sites of Kumaun Himalayas.	Science and Nature 5(3): 572-576	2014
Nandan Singh , Kamini Tamta, Ashish Tewari and Jeet Ram	Studies on vegetational analysis and regeneration status of <i>Pinus roxburghii</i> , roxb. And <i>Quercus leucotrichophora</i> forests of Nainital forest division	Global Journal of Science Frontier Research (C). XIV(III) 1: 41-48	2014

b) Patents

Authors name	Title of the patent	Patent no (Granted or filed)	Year
-	-	-	-

c) Books

Authors name	Title of the book	Publisher	ISBN	Year
-	-	-	-	-

d) Book chapters

Authors name	Title of the book	Publisher	ISBN	Year
Nandan Singh and Maitreyie Narayan	Pollution in Freshwater: Impact and Prevention	Springer Nature	978-981-99-5018-8_15	2023
Ashish Tewari, Shruti Shah, Nandan Singh , Amit Mittal and Krishna Kumar Tamta	Water Relations of the Indian Himalayan Treeline Species	Springer Nature	978-981-19-4475-8 (P), 978-981-19-4475-5 (E)	2023
Nandan Singh , Ashish Tewari, Shruti Shah, Amit Mittal, Krishna Kumar Tamta and Maitreyie Narayan	Capsule maturation timing and seed germination in <i>Rhododendron arboreum</i> Smith at sub-alpine region of western Himalaya, Uttarakhand	Planta	6:1065-1072	2023
Ashish Tewari, Shruti Shah, Nandan Singh ,	Tree water relations in the treeline	ICIMOD	978 92 9115 724 2 (P) 978 92 9115 723 5 (E)	2021

Krishna Kumar Tamta and Amit Mittal 76-83				
Ashish Tewari, Shruti Shah and Nandan Singh	Resource availability and oil yield of <i>Diploknema butyracea</i> (Roxb.) Lamb.: An important multipurpose tree species of Kumaun Himalaya	Nova Science Publishers, Inc.	978-1-53618-140-1	2020
Ashish Tewari, Shruti Shah, Bhawana Tewari, Krishna Kumar Tamta, and Nandan Singh	Seedling dynamics of <i>Drepanostachyum falcatum</i> (Nees) Keng. Over a sixteen-year period after mass flowering in 2000. Himalayan bamboo: A sustainable livelihood options for rural mountain communities in the region (Year 2015-16)	Tata Social Welfare Trust	-	2018
Ashish Tewari, Krishna Kumar Tamta, Nandan Singh and Amit Mittal	Cheura (<i>Diploknema butyracea</i> Roxb.) "A promising agroforestry tree species between 300 – 1500 m elevation in Kumaun region of Uttarakhand	Forestry Research Institute, Haldwani	-	2016

e) Conference Publications/Proceedings

Authors name	Title of the paper	Conference Name	Year
Maitreyie Narayan, Nandan Singh , Praveen Solanki and Rajeev Kumar Srivastava	Performance assessment of constructed wetland-microbial fuel cell for treatment of wastewater containing heavy metals and bioelectricity generation	International Conference on Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development	2024
Nandan Singh and Ashish Tewari	Effect of Water Stress on Phenology, and Seed Germination of <i>Abies spectabilis</i> in the Western Himalayan Treeline Region	International Conference on Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development	2024
Sandeep Kumar Sunori, Amit Mittal, Nandan Singh , Mehul Manu and Pradeep Juneja	Fuzzy C-Means Clustering of Soil data Samples.	3 rd International Conference on Intelligent Technologies (CONIT), Karnataka, India	2023
Bhumika Bisht, Nandan Singh *, Maitreyie Narayan, Arti and Mukesh Chand	Structure, Regeneration Status and Seedling Dynamics of Forest Tree Species of Nainital Catchment in Kumaun Himalaya	National Conference on Agriculture, Applied and Life Science	2022
Shruti Shah, Ashish Tewari and Nandan Singh	Cone Maturation Timing and Seed Germination in <i>A. Spectabilis</i> Near the Treeline Areas of Western Himalaya	National Conference on Agriculture, Applied and Life Science	2022
Nandan Singh , Ashish Tewari, Shruti Shah, Amit Mittal, Krishna Kumar Tamta and Maitreyie Narayan	Capsule Maturation Timing and Seed Germination in <i>Rhododendron arboreum</i> Smith at Sub-Alpine Region of Western Himalaya, Uttarakhand	National Conference on Agriculture, Applied and Life Science	2022
Nandan Singh	Development of ANN Based Models for Binary Classification of Rainfall	3 rd Global Conference for Advancement in Technology	2022

Ashish Tewari, Shruti Shah and Nandan Singh	Water relations of tree species in the Himalayan region on Uttarakhand	International Conference on Global Perspective in Agricultural and Applied Science for Food and Environmental Security	2019
Nandan Singh	Forest regeneration problem in treeline areas of Uttarakhand	13 th Uttarakhand State Science & Technology Congress	2019
Kamini Tamta, Jeet Ram and Nandan Singh	Biomass variation in forest grazing lands of central Himalayan Forest	12 th Uttarakhand State Science & Technology Congress	2018
Nandan Singh and Ashish Tewari	Tree water relation and regeneration status of treeline species in Tungnath area of Uttarakhand	National Seminar on Plants and Environment	2017
Nandan Singh , Ashish Tewari and Shruti Shah	Tree water relation and phenological events in treeline forming species in Uttarakhand	Uttarakhand State Science & Technology Congress	2018
Kamini Tamta, Jeet Ram and Nandan Singh	Canopy Gap Characteristics of Banj-Oak (<i>Quercus leucotrichophora</i>) Forest of Kumaun Himalaya	Uttarakhand State Science & Technology Congress	2017
Nandan Singh , Ashish Tewari and Amit Mittal	Vegetation Patterns and Species Diversity along an Altitudinal Gradient in the Central Himalayan Forest	Uttarakhand State Science & Technology Congress	2017
Kamini Tamta, Jeet Ram and Nandan Singh	Vegetation analysis of forests under community management in Nainital catchment of Kumaun Himalaya	Indian Science Congress	2017
Nandan Singh and Ashish Tewari	Tree phenological response to microclimate variation in Kumaun Himalayan region of India	Indian Science Congress	2017
Kamini Tamta, Ashish Tewari and Nandan Singh	Seed maturity indices in <i>Quercus leucotrichophora</i> A. camus acrons in Nainital forest division, Uttarakhand	Indian Science Congress	2016
Ashish Tewari, Shruti Shah, Nandan Singh , Krishna Kumar Tamta and Amit Mittal	Livelihood promotion by raising <i>Prunus armenica</i> in degraded areas between 1800-3000 meters in Uttarakhand Himalaya	National Conference on Environmental Conservation and Clean India Programme	2014

Projects

Title of the project	Funding agency	Amount (Rs)	Year
-	-	-	

Teaching details

Name of the course/paper	Department	University	Year
M. Sc. Environmental Science Physical Environment and Ecosystem Dynamics	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Environment Conservation and Sustainable Development	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Environmental Pollution and Legislation	Forestry	Kumaun University	2021 - Present
M. Sc. Environmental Science Environmental Biostatistics	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Natural Hazards and Disaster Management	Forestry	Kumaun University	2021 - Present

M. Sc. Environmental Science Social Issues and The Environment	Forestry	Kumaun University	2020 - Present
M. Sc. Environmental Science Research Methodology	Forestry	Kumaun University	2022 - Present
M. Sc. Environmental Science Ecotourism: Concept and Approaches	Forestry	Kumaun University	2022 - Present
M. Sc Forestry Forest Biodiversity and Conservation	Forestry	Kumaun University	2021-2022
M. Sc Forestry Forest Management of Insect-Pest and Diseases	Forestry	Kumaun University	2022
B. Sc Forestry Forest Ecology and Biodiversity	Forestry	Kumaun University	2020-2021
B. Sc Forestry Silviculture and Silvicultural Systems	Forestry	Kumaun University	2021
B. Sc Forestry Plantation Technology and Tree Improvement	Forestry	Kumaun University	2022-2023
Forestry - Vocational Nursery Technology	Forestry	Kumaun University	2022-2023
Forestry - Vocational Watershed Management	Forestry	Kumaun University	2023
Forestry – Minor Elective Ecotourism in Himalayan Region	Forestry	Kumaun University	2022-2023
B. Sc. Forestry (Self-Financed) Introductory Biology	Forestry	Kumaun University	2020-2022
B. Sc. Forestry (Self-Financed) Biodiversity and Forest types	Forestry	Kumaun University	2021 - Present
B. Sc. Forestry (Self-Financed) Tree Physiology	Forestry	Kumaun University	2021 - Present
B. Sc. Forestry (Self-Financed) Forest Survey and Land Use	Forestry	Kumaun University	2021-2023
Post Graduate Diploma in Mountain Ecosystem and Climate Change Mountain Ecosystem	Forestry	Kumaun University	2020 - Present
Post Graduate Diploma in Mountain Ecosystem and Climate Change Biodiversity and Ecosystem Services	Forestry	Kumaun University	2020 - Present
Post Graduate Diploma in Mountain Ecosystem and Climate Change Soil and Water Conservation	Forestry	Kumaun University	2021-2023
Post Graduate Diploma in Mountain Ecosystem and Climate Change Analytic Technique	Forestry	Kumaun University	2021-2023

Professional Memberships

Organization	Position	Year
British Ecological Society	Member	2019 - Present
Society for Mountain Development and Conservation	Member	2021 - Present
Environmental Consultancy Group	Member	2022 - Present
Edwin Group of Journal	Reviewer	2023 - Present

Agro Environmental Development Society (AEDS)	Member	2024 - Present
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Honours and Awards

Award	Awarding Organization	Year
Best Scientist Award in Forestry	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	2024
First Position for Best Oral Presentation Award	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	2024

Conference Presentations

Title of presentation	Conference Name	Name of the institution	Year
Effect of Water Stress on Phenology, and Seed Germination of <i>Abies spectabilis</i> in the Western Himalayan Treeline Region	International Conference on Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS)	2024
Capsule Maturation Timing and Seed Germination in <i>Rhododendron arboreum</i> Smith at Sub-Alpine Region of Western Himalaya, Uttarakhand	National Conference on Agriculture, Applied and Life Science	PLANTICA: Association of Plant Science Researchers (APSR), Dehradun	2022
Water relations of tree species in the Himalayan region on Uttarakhand	International Conference on Global Perspective in Agricultural and Applied Science for Food and Environmental Security	Agricultural and Environmental Technology Development Society	2019
Forest regeneration problem in treeline areas of Uttarakhand	13 th Uttarakhand State Science & Technology Congress	Uttarakhand State Council for Science & Technology (UCOST), Dehradun	2019
Tree water relation and phenological events in treeline forming species in Uttarakhand	12 th Uttarakhand State Science & Technology Congress	Uttarakhand State Council for Science & Technology (UCOST), Dehradun	2018
Tree water relation and regeneration status of treeline species in Tungnath area of Uttarakhand	National Seminar on Plants and Environment	Department of Botany, D.S.B. Campus, Kumaun University	2017
Vegetation Patterns and Species Diversity along an Altitudinal Gradient in the Central Himalayan Forest	11 th Uttarakhand State Science & Technology Congress	Uttarakhand State Council for Science & Technology (UCOST), Dehradun	2017
Water Relations of Himalayan Treeline Tree Species	6 th National Convention on Revisiting and Reconstructing Past of Himalayan Region	Uttarakhand History and Cultural Association	2016

A handwritten signature in blue ink, consisting of stylized, cursive letters that appear to be 'S. Singh'.

Signature of the faculty member