

Kumaun University, Nainital

Curriculum Vitae

Name : Dr. Shruti Shah
Designation : Assistant Professor (Guest Faculty)
Department : Faculty of Agriculture & Agroforestry
Contact Information
• Email Address : shrutisah23@gmail.com
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Educational Qualification

Degree	University	Subjects	Year
B.Sc.	Kumaun University, Nainital	Forestry, Zoology, Botany	1996
M.Sc.	Kumaun University, Nainital	Forestry	1996
Ph.D.	Kumaun University, Nainital	Forestry	2007

Work Experience

Position	Department	University/Organization	Year
Assistant Professor (Guest Faculty)	Faculty Of Agriculture & Agroforestry	Kumaun University, Nainital	2022 onwards
Research Associate (NMHS Project)	Department of Forestry	Kumaun University, Nainital	2016-2021
SERB Young Scientist (DST Fast Track Project)	Department of Forestry	Kumaun University, Nainital	2012-2015
Teaching Personal (Contractual)	Department of Forestry	Kumaun University, Nainital	2011-2012
SRF (NOVOD Project)	Department of Forestry	Kumaun University, Nainital	2004-2011
JRF (World Bank Project)	Silviculture Division	Uttarakhand Forest Department	2000-2002

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Member	Assistance in Ku-IIC activities	Kumaun University Innovation and Incubation Centre (KU-IIC), Nainital	2023 onwards

Research Interests

My area of specialization and research interest includes Forest Ecology, Forest Seeds, Plant Phenology, Ecophysiology and Climate Change.

Publications (start from recent publications)

a) Research Papers

Authors name	Title of the paper	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
Jyotsna Tamta, Ashish Tewari, Krishna Kumar Tamta, Shruti Shah	Timing of phenological events and fruit ripening in <i>Ficus palmata</i> forssk. In the Mid Himalayan Region	Journal of Applied Biology & Biotechnology 11(4), 109-11	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
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	Indian Himalayan timberline ecotone in response to climate change – initial findings	Current Science, 120(5): 859-871	2021

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, 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
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 Tamtaand 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
Jyotsna, Ashish Tewari, Shruti Shah and Krishna Kumar Tamta	Reliable Physical Parameters for Determining Fruit/Seed Maturity Timing of <i>Ficus semicordata</i> Buch. in Kumaun Region of Central Himalay	Current World Environment 15(2): 176-185	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
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
Shah, S. & Tewari, A.	Limited impact of climate change on seed maturation time in <i>Myrica esculenta</i> Buch-Ham. Ex. D.Don in Himalayan region.	International Journal of Environment, Agriculture and Biotechnology 1(4): 713-717.	2016
Ashish Tewari, Shruti Shah , Nandan Singh and Krishna Kumar Tamta	<i>Diploknemabutyracea</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
Verma A., Shah, S. and Tewari, A.	Survival problem in regeneration of high altitude Kharsu Oak (<i>Quercus semecarpifolia</i> Smith.) forests in Central Himalaya.	<i>International Journal of Bioassays</i> 4(3):3689-3692.	2015
Shah, S. , Verma, A. and Tewari, A.	Timing of Shifts in Phenological Events in <i>Rhododendron arboreum</i> Smith. Influenced by Climatic Irregularities in Kumaun Regions of Central Himalaya.	<i>Global Journal of Scientific Researches</i> , Vol. 2(2), pp. 56-59	2014
Shah S. , A. Tewari and A. Verma.	Timing of shifts in seed maturity indices in <i>Myrica esculenta</i> , Buch-Ham. Ex. D.Don and <i>Pyracantha crenulata</i> Roxb. influenced by climatic irregularities in Kumaun region of central Himalaya	<i>Journal of Environment and Bio-Sciences</i> 27(1):47-51	2013
Shah, S. , Tewari, A., Srivastava, A.K. & Verma A.	Influence of anthropogenic pressure on regeneration status of forest species along a river transect in Sub-Montane Himalayan region.	<i>Journal of Biodiversity & Ecological Sciences</i> , Vol 3(2): 80-85.	2013
Verma, A., Tewari, A. & Shah, S.	Threats to regeneration and forest carbon in high altitude <i>Quercus semecarpifolia</i> , Smith forests of Central Himalayan region.	<i>Scandinavian Journal of Forest Research</i> .27: 609-618	2012
Shah, S. , Tewari, A. & Srivastava, A.K.	Influence of Aspect and Location of Stands on Biodiversity in a Sal Mixed Broadleaved Forest in Kumaun Central Himalaya.	<i>Russian Journal of Ecology</i> . 42(3): 211-215	2011
Tewari, B., Tewari, A., Shah S. , Pande, N. & Singh, R.P.	Physical attributes as indicator of seed maturity and germination enhancement in Himalayan Wild Cherry (<i>Prunus cerasoides</i> D. Don.).	<i>New Forest</i> . 41:139-146	2011
Shah, S. & Tewari, A.	Pretreatments influence germination of <i>Myrica esculenta</i> , Buch-Ham. Ex. D.Don.: a multipurpose tree species of subtropical-temperate Himalayan region.	<i>Seed Technology</i> . 32(2):108-116	2010

Rawat V.S., Rawat, Y.S. & Shah, S.	Indigenous knowledge and sustainable development in the Tones Valley of Garhwal Himalaya.	<i>Journal of Medicinal Plants Research.</i> 4(19):2043-2047.	2010
Shah, S. , Tewari,A., Tewari, B. & Singh, R.P.	Seed maturity indicators in <i>Myrica esculenta</i> , Buch-Ham. Ex. D.Don.: a multipurpose tree species of subtropical-temperate Himalayan region.	<i>New Forest.</i> 40:9-18.	2010
Arya, D., Tewari, A. and Shah, S.	Erosion of biodiversity knowledge between younger and older generation regarding plant identification and their uses in oak and pine dominated zone of Garhwal Himalaya.	<i>New York Science Journal.</i> 3(6): 108-111.	2010
Singh, R.P., Tewari, A., Shah, S. and Tewari, B.	Seed maturity indices in <i>Aisandra butyracea</i> Lamb.- A multipurpose tree species of lower Himalaya.	<i>Journal of Environmental Biology.</i> 31: 297-299	2010
Srivastava, A.K., Tewari, A., Shah, S. & Tewari B.	Species composition and regeneration pattern along a transect perpendicular to a river course in foot-hill deciduous tropical forest of Kumaun.	<i>Indian Journal of Forestry</i> 31(1):7-12	2008
Upadhyay, L.; Singh, R.P.; Tewari,A.; Bisht S. and Shah,S.	Seed maturation indicators in <i>Bauhinia retusa</i> Ham. In Kumaun Central Himalayas.	Indian Journal of Forestry, 29(4):367371.	2006
Shah, S. , Tewari, B., Tewari A. & Bisht S.	Seed maturation indicators in <i>Pyracantha crenulata</i> Roxb. in Kumaun Central Himalaya.	<i>New Forest</i> 32:1-7.	2006
Bisht T., Shah, S. , Tewari, B. & Tewari, A.	Study of important medicinal trees, Shrubs and herbs for some vegetational parameters between 300-2000m elevation.	<i>Ecology, Environment. & Conservation.</i> 10(1): 43-46	2004

b) Patents (start from recent publications)

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

c) Books (start from recent publications)

Authors name	Title of the book	Publisher	ISBN	Year
Edited by Dr. Pankaj Tewari, Dr. Shruti Shah and Dr. Pratap Dhaila	A sustainable Livelihood options for rural mountain communities in the region (Year 2015-2016)	Tata Social Welfare Trust	-	2018

d) Book chapters (start from recent publications)

Authors name	Title of the book	Publisher	ISBN	Year
Tewari, A.; Shah, S. ; Jyotsna and Tewari, B.	Regeneration issues and fruit/seed maturation timing of some edible wild tree species with medicinal properties in Kumaun Himalaya	Indu Book Services Pvt. Ltd.	978-93-91377-88-5	2024
Negi, K.; Maan, I.; Sharma,A.; Sharma,A.; Shah, S. and Singh H.P.	Ethnobotanical investigations on medicinal plants used by tribals of Himachal Pradesh, India	Indu Book Services Pvt. Ltd.	978-93-91377-88-5	2024
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, Krishna Kumar Tamta and Amit Mittal76-83	Tree water relations in the treeline	ICIMOD	978 92 9115 724 2 (P) 978 92 9115 723 5 (E)	2021
Ashish Tewari, Shruti Shah and Nandan Singh	Resource availability and oil yield of <i>Diploknemabutyracea</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>Drepanostachyumfalcatum</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
Tewari, A.; Shah, S.and Tewari, P.	Migration issue in Uttarakhand and possible suggestions for its migration. Book: Migration from Indian Himalayan region: Challenges and Strategies.	Jagdamba Publishing company,		2018
Tewari, A.; Shah,	Developing an understanding of			2016

S.; Phartyal, P. and Tewari, P.	relationship between migration and unemployment in Kumaun region of Uttarakhand. Book: Sustainable development in Indian Himalayan region: Prospects and Challenges			
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e) Conference Publications/Proceedings (start from recent publications)

Authors name	Title of the paper	Conference name	Year
Shruti Shah, Ashish Tewari & Lalit M. Tewari	Phenological response of two under canopy tree species to climate change in Kumaun Himalayan Region	International Conference on Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development	2024
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
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, Ashish Tewari and Shruti Shah	Tree water relation and phenological events in treeline forming species in Uttarakhand	Uttarakhand State Science & Technology Congress	2018
Shah, S. and Tewari, A.	Regeneration problem in <i>Myrica esculenta</i> , Buch-Ham. Ex. D.Don. in relation to climate change in central Himalayan region	6 th National Convention on “Revisiting and reconstructing past of Himalayan region”	2016
Basera, N.S. and Shah, S.	Van sanrakshan aur mahilayan	National seminar on challenges of women in the Himalayan region,	2015
Tewari, A., Shah, S. and Tewari, A.	Women representation in van panchayats of Uttarakhand: A step towards environmental conservation.	National seminar on challenges of women in the Himalayan region	2015
Ashish Tewari, Shruti Shah,	Livelihood promotion by raising <i>Prunus armenica</i> in degraded areas	National Conference on Environmental Conservation and	2014

Nandan Singh, Krishna Kumar Tamta and Amit Mittal	between 1800-3000 meters in Uttarakhand Himalaya	Clean India Programme	
Shah, S. , Tewari, B., Tamta, K. and Mittal, A.	Influence of anthropogenic disturbance on forest diversity over two decades in the Nainital catchment	National conference on environmental conservation and Clean India Programme	2014
Shah, S., Tewari, A. and Verma, A.	Timing of shifts in seed maturity indices in <i>Myrica esculenta</i> , Buch-Ham. Ex. D.Don and <i>Pyracantha crenulata</i> Roxb. influenced by climatic irregularities in Kumaun region of central Himalaya.	National Seminar on status of environment and biodiversity: Rio + 20 and role of space technology.	2012
Tewari, A. and Shah, S.	Colonization of landslides affected areas by natural regeneration of early successional species.	National seminar on geology and geo-resources of Himalaya and cratonic regions of India (GGHCRI-2012).	2012
Tewari, A. and Shah, S.	Carbon Sequestration by Uttarakhand Forests: A Tangible Ecosystem Service.	National Seminar on research methods in Forestry and Climate Change.	2010
Shah, S. , Tewari, A. and Tewari, B.	Timing of phenological shifts of Himalayan Plant species: Disturbance or climate change	National Seminar on research methods in Forestry and Climate Change	2010
Shah, S. and Tewari, A.	Effect of Climate Change on Phenology of Himalayan Plant Species.	National Seminar on response of eco-biological components to the phenomenon of global warming (NSREG-2009)	2009
Shah, G.L., Tewari, A., Shah, S. and Tewari, B.	Anthropogenic impact on plant richness and water resources in Nainital catchment	2 nd Uttarakhand State Science Congress,	2007
Singh, R.P., Tewari, A., Shah, S. and Tewari, B.	Germination variation in <i>D. butyracea</i> in relation to elevation	National seminar on recent advances in forest sciences	2006

Projects

Title of the project	Funding agency	Amount (Rs)	Year
Timing of phenological shifts and its impact on regeneration in forests of Kumaun Himalaya. (DST Fast Track Scheme)	SERB, New Delhi	29.0 lakh approx.	2021-2015

Teaching details

Name of the course/paper	Department	University	Year
B.Sc. I Sem. (Agriculture) Introduction to Forestry	Agriculture	Kumaun University, Nainital	2022 - Present
B.Sc. I Sem.(Agriculture) Fundamentals of Soil Science	Agriculture	Kumaun University, Nainital	2022-2023
B.Sc. II Sem (Agriculture) Fundamentals of crop physiology	Agriculture	Kumaun University, Nainital	2024
B.Sc. III Sem (Agriculture) Environmental Studies & Disaster Management	Agriculture	Kumaun University, Nainital	2022 - Present
B.Sc. III Sem (Agriculture) Statistical Methods	Agriculture	Kumaun University, Nainital	2022-2023
B.Sc. IV Sem. (Agriculture) Introductory Agro-meteorology & Climate Change	Agriculture	Kumaun University, Nainital	2022 - Present
B.Sc. IV Sem. (Agriculture) Renewable energy & green technology	Agriculture	Kumaun University, Nainital	2022-2023
B.Sc. VI Sem. (Agriculture) Principles of Organic Farming	Agriculture	Kumaun University, Nainital	2022-2023
M.Sc. II Sem (Agronomy & Horticulture) Experimental Design	Agriculture	Kumaun University, Nainital	2022 - Present
M.Sc. II Sem (Agronomy) Dryland Farming & Watershed Management	Agriculture	Kumaun University, Nainital	2022 - Present
M.Sc. II Sem (Agronomy & Horticulture) Research Methodology	Agriculture	Kumaun University, Nainital	2022 – Present
M.Sc. III Sem (Agronomy) Agroforestry & Agrostology	Agriculture	Kumaun University, Nainital	2022- Present

Professional Memberships

Organization	Position	Year
Society for Mountain Development and Conservation	Secretary	2021 – Present
Central Himalayan Environment Association	Life Member	2018 onwards

Honours and Awards

Award	Awarding Organization	Year
-	-	-

Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Phenological response of two under canopy tree species to climate change in Kumaun	International Conference on Current Approaches in Agricultural,	Faculty of Agriculture and Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro	2024

Himalayan Region	Biological & Applied Sciences for Sustainable Development	Environmental Development Society (AEDS)	
Regeneration problem in Myrica esculenta, Buch-Ham. Ex. D.Don. in relation to climate change in central Himalayan region	6 th National Convention on “Revisiting and reconstructing past of Himalayan region”	Uttarakhand History and Cultural Association	2016
Women representation in van panchayats of Uttarakhand: A step towards environmental conservation.	National seminar on challenges of women in the Himalayan region	Department of Political Science, Kumaun University, Nainital	2015



Signature of the faculty member