

Kumaun University, Nainital
Curriculum Vitae

Name : KIRAN BARGALI :

Designation : PROFESSOR

Department : BOTANY

Contact Information

• Email Address : kiranbargali@yahoo.co.in

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LinkedIn Profile (Optional) :

ORCID ID: <https://orcid.org/0000-0002-8554-8803> :

Scopus ID :

Vidwan ID :

Educational Qualification

Degree	University	Subjects	Year
B.Sc	Kumaun University, Nainital	Zoology, Botany, Chemistry	1984
M.Sc*	Kumaun University, Nainital	Botany	1986
Ph.D	Kumaun University, Nainital	Botany	1991
M.Sc Secon specialization	Kumaun University, Nainital	Ethnobotany and Resource Botany	1992

- First position in University

Work Experience (add row if required)

Position	Department	University/Organization	Year
Assistant Professor	Botany	Kumaun University, Nainital	From 13-07-2005 to 12-07- 2017
Associate Professor	Botany	Kumaun University, Nainital	From 13-07-2017 to 12-07- 2020
Professor	Botany	Kumaun University, Nainital	From 13-07-2020- till date

Administrative Responsibilities (add row if required)

Position	Nature of responsibility	University/Organization	Year
Assistant Proctor	Maintaining law and order in the campus	Kumaun University, Nainital	2010-2016
Member Fee concession Committee	Counselling of students	Kumaun University, Nainital	
Assistant Superintendent of	Conducting fair examination	Kumaun University, Nainital	2014-2016

Main, Improvement and Semester Exam			
Managing Editor, OAKS	Publish the Departmental news letter - OAKS	Kumaun University, Nainital	2022
Convener B.Sc.I Sem (Bio group)admission committee	Preparation of comparative chart of the received applications ii. Merit list preparation and counselling of students	Kumaun University, Nainital	2019-2020
Convener B.Sc II Sem (Bio group)admission committee	Counselling of students	Kumaun University, Nainital	2019-2020
Member, (Nominated by Govt. of Uttarakhand)	Making policies for schools under Uttarakhand Board	Uttarakhand Vidyalaye Shiksha Parisad, Ramnagar	2013-2022

Research Interests

Actively engaged in the research area of forest ecology, plant invasion, agroforestry, ecorestoration and biodiversity conservation since last 30 years.

Publications (start from recent publications)

a) Research Papers(add row if required)

Authors name	Title of the paper	Journal, vol, page no	Year
Bhawana Negi, Kavita Khatri, SS Bargali and Kiran Bargali	Invasive <i>Ageratina adenophora</i> (Asteraceae) in agroecosystems of Kumaun Himalaya, India: A threat to plant diversity and sustainable crop yield	<i>Sustainability</i> 15: 10748. https://doi.org/10.3390/su151410748	2023
Kavita Khatri, B Negi, Kiran Bargali and SS Bargali	Effects of different concentrations of leaf residues of <i>Ageratina adenophora</i> on seed germination and growth behavior of two native tree species of Kumaun Himalaya, India	<i>Waste and Biomass Valorization</i> https://doi.org/10.1007/s12649-023-02213-5	2023
Kavita Khatri, Bhawna Negi, Kiran Bargali and S.S. Bargali	Trait plasticity: a key attribute in the invasion success of <i>Ageratina adenophora</i> in different forest types of Kumaun Himalaya, India	<i>Environment, Development and Sustainability</i> https://doi.org/10.1007/s10668-023-03529-x	2023
Archana Fartyal, Kiran Bargali and S.S. Bargali	The effect of different slope aspects on plant diversity and soil characteristics in temperate grassland of Kumaun Himalaya	<i>Vegetos.</i> https://doi.org/10.1007/s42535-023-00609-1	2023
Charu Shahi, S.S. Bargali and Kiran Bargali and Vibhuti	Dry matter dynamics and CO ₂ mitigation in the herb layer of Central Himalayan agroecosystems along an altitudinal gradient, India.	<i>Tropical Ecology.</i> https://doi.org/10.1007/s42965-022-00258-6	2023
Anil Kumar Verma, R. Nayak, N.	Monitoring the distribution pattern and invasion status of <i>Ageratina adenophora</i> across elevational gradients in Sikkim	<i>Environment Monitoring and Assessment</i> 195:152. https://doi.org/10.1007/s10668-023-03529-x	2023

Manika, Kiran Bargali , V.N. Pandey, L.B. Chaudhary and S.K. Behera	Himalaya, India	661-022-10549-z	
Vijyeta Manral, Kiran Bargali , S.S. Bargali, Himani Karki and R.K. Chaturvedi	Seasonal Dynamics of soil microbial biomass C, N and P along an altitudinal gradient in Central Himalaya, India	<i>Sustainability</i> 15: 1651. https://doi.org/10.3390/su15021651	2023
Rachita Pandey, S.S. Bargali, Kiran Bargali , Himani Karki, M. Kumar and U.K. Sahoo	Fine root dynamics and associated nutrient flux in sal dominated forest ecosystems of Central Himalaya, India	<i>Frontiers in Forests and Global Change</i> 5: 1064502. https://doi.org/10.3389/ffgc.2022.1064502	2023
Rachita Pandey, S.S. Bargali, Kiran Bargali and V.C. Pandey	Temporal variability in fine root dynamics in relation to tree girth size in sub-tropical sal (<i>Shorea robusta</i>) forests	<i>Land Degradation & Development</i> 1–16. https://doi.org/10.1002/ldr.4550	2023
Kavita Khatri, Kiran Bargali , S.S. Bargali and Bhawna Negi	Effects of leaf residues from <i>Ageratina adenophora</i> on germination, growth and productivity of two rabi crops.	<i>Acta Ecologica Sinica</i> 43(02): 363–374. https://doi.org/10.1016/j.chnaes.2022.05.001	2023
Kavita Khatri, Bhawna Negi, Kiran Bargali and S.S. Bargali	Phenotypic variation in morphology and associated functional traits in <i>Ageratina adenophora</i> along an altitudinal gradient in Kumaun Himalaya, India	<i>Biologia</i> 78:1333–1347. https://doi.org/10.1007/s11756-022-01254-w	2023
Rachita Pandey, S.S. Bargali and Kiran Bargali	Tree biomass and carbon stock in subtropical Sal forest of Central Himalaya, India	<i>Vegetos.</i> https://doi.org/10.1007/s42535-022-00503-2	2022
Soni Bisht, S.S. Bargali, Kiran Bargali , G.S. Rawat, Y.S. Rawat and A. Fartyal	Influence of anthropogenic activities on forest carbon stocks—A case study from Gori Valley, Western Himalaya	<i>Sustainability</i> 14: 16918. https://doi.org/10.3390/su142416918	2022
S.S. Bargali, Charu Shahi, Kiran Bargali , Bhawna Negi and Kavita Khatri	Energy and monetary efficiencies at the different altitudinal agroecosystems in central Himalaya, India	<i>Heliyon</i> 8(11): e11500. https://doi.org/10.1016/j.heliyon.2022.e11500	2022
Kavita Khatri, Bhawna Negi, Kiran Bargali and S.S. Bargali	Trait variability in co-occurring invasive and native plant species in road side population of Kumaun Himalaya	<i>Brazilian Journal of Botany</i> 45: 1099–1110. https://doi.org/10.1007/s40415-022-00827-y	2022
Himani Karki, Kiran Bargali and S.S. Bargali	Dynamics of fine root and soil nitrogen in <i>Mangifera indica</i> based agroforestry systems in Central Himalaya, India	<i>Land Degradation & Development</i> 33 (15): 3523–3538.	2022

		https://doi.org/10.1002/ldr.4406	
Pankaj Awasthi, Kiran Bargali , S.S. Bargali and Kavita Khatri	Nutrient return through decomposing <i>Coriaria nepalensis</i> litter in degraded hills of Kumaun Himalaya, India	<i>Frontiers in Forests and Global Change</i> 5: 1008939. https://doi.org/10.3389/ffgc.2022.1008939	2022
Pankaj Awasthi, Kiran Bargali , S.S. Bargali, Kavita Khatri and M.K. Jhariya	Nutrient partitioning and dynamics in <i>Coriaria nepalensis</i> Wall dominated shrublands of degraded hills of Kumaun Himalaya	<i>Frontiers in Forests and Global Change</i> 5: 913127. https://doi.org/10.3389/ffgc.2022.913127	2022
Vijyeta Manral, Kiran Bargali , S.S. Bargali, M.K. Jhariya and Kirtika Padalia	Relationships between soil and microbial biomass properties and annual flux of nutrients in Central Himalayan forests, India	<i>Land Degradation & Development</i> 33 (12): 2014–2025. https://doi.org/10.1002/ldr.4283	2022
Pankaj Awasthi, Kiran Bargali and S.S. Bargali	Relative performance of woody vegetation in response to facilitation by <i>Coriaria nepalensis</i> in Central Himalaya, India	<i>Russian Journal of Ecology</i> 53 (3): 191–203	2022
Kavita Khatri, Bhawna Negi, Kiran Bargali and S.S. Bargali	Effects of elevation and habitat on leaf and reproductive traits of <i>Ageratina adenophora</i> (Sprengel) King & Robinson	<i>South African Journal of Botany</i> 147: 859–870. https://doi.org/10.1016/j.sajb.2022.03.033	2022
Pankaj Awasthi, Kiran Bargali , S.S. Bargali and M.K. Jhariya	Structure and functioning of <i>Coriaria nepalensis</i> Wall dominated shrublands in degraded hills of Kumaun Himalaya. I. Dry Matter Dynamics	<i>Land Degradation & Development</i> 33 (9): 1474–1494. https://doi.org/10.1002/ldr.4235	2022
Rachita Pandey, S.S. Bargali and Kiran Bargali	Seasonal dynamics of soil Inorganic N and N– mineralization in sub–tropical Sal forest in Central Himalaya, India	<i>Journal of Scientific Research</i> 66 (3): 161–175. https://doi.org/10.37398/JSR.2022.660320	2022
Charu Shahi, S.S. Bargali and Kiran Bargali	Dry matter dynamics and CO ₂ mitigation in the herb layer of Central Himalayan agroecosystems along an altitudinal gradient, India	<i>Tropical Ecology</i> . https://doi.org/10.1007/s42965-022-00258-6	2022
Kirtika Padalia, S.S. Bargali, Kiran Bargali and Vijyeta Manral	Soil microbial biomass phosphorus under different land use systems	<i>Tropical Ecology</i> 63: 30–48. https://doi.org/10.1007/s42965-021-00184-z	2022
Vibhuti, Kiran Bargali , S.S. Bargali	Changing pattern of plant species utilization in relation to altitude and their relative prevalence in homegardens of Kumaun Himalaya, India	<i>Natural Resources for Human Health</i> . https://doi.org/10.53365/nrfhh/144792	2022
Himani Karki, Kiran Bargali and S.S. Bargali	Spatial and temporal trends in soil N– mineralization rates under the agroforestry systems in Bhabhar belt of Kumaun Himalaya, India	<i>Agroforestry Systems</i> 95: 1603–1617. https://doi.org/10.1007/s10457-021-00669-9	2021

Kavita Khatri, Bhawna Negi, Kiran Bargali and S.S. Bargali	Spatial variation in allelopathic inhibition by <i>Ageratina adenophora</i> on growth and yield of two traditional millet crops	<i>Vegetos</i> 35: 663–673. https://doi.org/10.1007/s42535-022-00353-y	2021
Himani Karki, Kiran Bargali and S.S. Bargali	Nitrogen mineralization patterns in <i>Populus deltoides</i> and <i>Tectona grandis</i> based agrisilvicultural practices in Central Himalaya, India	<i>Vegetos</i> 34 (1): 86–93 https://doi.org/10.1007/s42535-021-00195-0	2021
Himani Karki, Kiran Bargali and S.S. Bargali	Spatial and seasonal pattern of fine root biomass and turnover rate in different land use systems in Central Himalaya, India	<i>Russian Journal of Ecology</i> 52 (1): 36–48	2021
Vibhuti, Kiran Bargali and S.S. Bargali	Effect of size and altitude on soil organic carbon stock in homegarden agroforestry system in Central Himalaya, India	<i>Acta Ecologica Sinica</i> 40 (6): 483–491. https://doi.org/10.1016/j.chnaes.2020.10.002	2020
Vijyeta Manral, Kiran Bargali , S.S. Bargali and Charu Shahi	Changes in soil biochemical properties following replacement of Banj oak forest with Chir pine in Central Himalaya, India	<i>Ecological Processes</i> 9: 30. https://doi.org/10.1186/s13717-020-00235-8	2020
Bargali SS, Padalia K, Bargali K	Effects of tree fostering on soil health and microbial biomass under different land use systems in central Himalayas	<i>Land Degrad Dev</i> 30(16): 1984–1998 https://doi.org/10.1002/ldr.3394	2019
Vibhuti, Kiran Bargali , S.S. Bargali	Species composition, diversity and traditional uses of homegarden in Kumaun Himalaya, India	<i>Indian Journal of Agricultural Sciences</i> 89(9):1415-1418.	2019
Mourya NR, Kiran Bargali , S.S. Bargali	Effect of <i>Coriaria nepalensis</i> Wall. colonization in a mixed conifer forest of Indian Central Himalaya	<i>Journal of Forestry Research</i> DOI: 10.1007/s11676-018-0613-x 30 (1), 305-317	2019
Bargali Kiran , Vijyeta Manral, Kirtika Padalia, SS Bargali and VP Upadhyay	Effect of vegetation type and season on microbial biomass carbon in Central Himalayan forest soils, India	<i>Catena</i> . https://doi.org/10.1016/j.catena.1018.07.001	2018
Padalia Kirtika, S.S. Bargali, Kiran Bargali and Kapil Khulbe	Microbial biomass carbon and nitrogen in relation to cropping systems in Central Himalaya, India	<i>Current Science</i> 115 (9), 1741-1750	2018
Vibhuti, Kiran Bargali , S.S. Bargali.	Effects of homegarden size on floristic composition and diversity along an altitudinal gradient in Central Himalaya, India	<i>Current Science</i> 114(12):2494-2503	2018

b) Patents (start from recent publications)(add row if required):NA

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
A. Raj, M.K. Jhariya, A. Banerjee, S. Neem and Kiran Bargali	<i>Land and environmental management through forestry</i>	Wiley-Scrivener Publishing LLC	9781119910404	2023
Balwant Kumar, Sudhir Chandra, Kiran Bargali and Y.P.S. Pangtey	<i>Ethnobotany of Religious practices in Kumaun: Havan</i>	Bishan Singh Mahendra Pal Singh Publication Dehradun		2007
Jagdish Chandra, Sudhir Chandra, Kiran Bargali and Y.P.S. Pangtey	<i>Ethnobotanical study of a Kumauni festival: Harela</i>	Bishan Singh Mahendra Pal Singh Publication Dehradun		2005

d) Book chapters (start from recent publications)

Authors name	Title of the book	Publisher	ISBN	Year
Shahi C, S.S. Bargali and Kiran Bargali	Effects of size and altitude on plant diversity in agroecosystems of Kumaun Himalaya, India In: Sustainable Agriculture	Shrinkhala Publishing House, Ayodhya, U. P	978-93-87548-14-5	2019
Kiran Bargali	<i>Globalization and marginalization in mountain regions: Assets and challenges in marginal regions</i>	Springer International Publishing Switzerland	2367-002	2015
Pande R., Bargali, K. And Pande, N.	<i>Climate change: Socio economic and environmental issues- Problems and challenges</i>	Mohit Books International, New Delhi	978-81-7445-695-3	2015

e) Conference Publications/Proceedings (start from recent publications)

Authors name	Title of the paper	Conference name	Year
Kiran Bargali and Vibhuti	Role of rural women in conservation of plant diversity in	Human rights and challenges of women in India	2019

	homegarden agroforestry systems on Kumaun Himalaya		
Vibhuti, Karki H. and Kiran Bargali	Assessment of ecosystem services in homegarden systems in Kumaun Himalaya	Ecological ignorance in Development: raising Disastrous Possibilities	2017

Projects

Title of the project	Funding agency	Amount (Rs Lakh)	Year
Dual symbiosis in nitrogen fixing plants as a biotechnological tool for restoration of degraded forest ecosystems in Kumaun Himalaya	DST, New Delhi	10.0	September 2002-August 2005
Role of rural women in homegarden agroforestry in Kumaun Himalaya, Uttarakhand	ICSSR, New Delhi	7.00	May 2014-October 2015
Contribution of homegarden agroforestry in rural livelihood in Nainital, Uttarakhand	UGC, New Delhi	10.35	July 2015-June 2018
Invasion biology of <i>Ageratina adenophora</i> and solutions for restoring ecosystem processes	DST, New Delhi	46.22	May 2020-April 2023

Teaching details

Name of the course/paper	Department	University	Year
UG	Botany	Kumaun University Nainital	2005- till date
PG	Botany	Kumaun University Nainital	2005- till date
Pre-Ph.D	Botany	Kumaun University Nainital	2011- till date

Professional Memberships

Organization	Position	Year
Central Himalayan Environment Association	Life Member	Since 2003
Indian Science Congress association	Life Member	Since 2005
OAKS	Life Member	Since 2011

Honours and Awards

Award	Awarding Organization	Year
Silver Jubilee Fellow	Kumaun University, Nainital	From 1.10.87 to 30.09.89
J.R.F.	DoEn, New Delhi	From 1.12.89 to 31.03.91
R.A.	CSIR, New Delhi	From 01.10.92 to 31.07.97
Pool Officer /S.R.A.	CSIR, New Delhi	From 01.08.97 to 31.7.2000
Young Scientist under SERC Fast Track Scheme	DST, New Delhi	From 02.09.02 to 31.8.2005
Certificate of Merit	Indian Botanical Society	2005
S.K.Seth Prize	The Indian Forester	2015
Prof. K.S. Valdiya Research Award	Kumaun University, Nainital	2022

Conference Presentations

Title of presentation	Conference name	Name of the institution	Year
Carbon sequestration potential of land-use systems and their implication for climate change mitigation	International AvK Kolleg LIMIT-2019	Humboldt Club of Uttarakhand	2019
Soil carbon sequestration in homegardens along altitudinal gradient in Kumaun Himalaya, India	Global perspectives in Agricultural and Applied Sciences for food and Environment Security (GAAFES 2019)	Agricultural and Environmental Technology Development Society , US Nagar, Uttarakhand	2019
Species diversity, population structure and regeneration patterns along the altitudinal gradient in a part of Kosi catchment area, Central Himalaya, India	106 th Indian Science Congress	Indian Science Congress Association	2019
Gymnosperms	Virtual workshop for postgraduate Programme in Botany	UOU Haldwani, Uttarakhand	2020
The role of homegardens in	Century of Asians:	UPSA and HRDC,	2018

household food security in Kumaun Himalaya, India	Role and impact of Asian countries(with special reference to BRICS and UN)	Kumaun University, Nainital	
Contribution of homegarden agroforestry in livelihood of rural farmers in Kumaun Himalaya	Environmental governance and sustainable development in 21 st Century India: Challenges for the mountain region in the Anthropocene held	UPSA and HRDC, Kumaun University, Nainital	2017



Signature of the faculty member