

# Kumaun University, Nainital

## Curriculum Vitae

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Name : Dr. Harsh Kumar Chauhan

Designation : Guest Faculty

Department : Botany

### Contact Information

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### Educational Qualification

Degree	University	Subjects	Year
Ph.D.	Kumaun University, Nainital, India	Botany	2019
M.Sc.	Kumaun University, Nainital, India	Botany	2013
B.Sc.	M.J.P. Rohilkhand University, Bareilly, India	Botany, Chemistry and Zoology	2011

### Work Experience

Position	Department	University/Organization	Year
Guest Faculty	Botany	Kumaun University, Nainital, India	07/09/2019 - Present
Research Associate	Centre for Biodiversity and Conservation & Management	G.B.Pant National Institute of Himalayan Environment (NIHE), Almora, Uttarakhand, India	22/02/2019 – 06/09/2019
UGC-BSR JRF/SRF	Botany	D.S.B. Campus, Kumaun University, Nainital, India	01/01/2014 – 17/08/2018

### Research Interests

My research interests encompass the causes and impacts of biodiversity loss, focusing on biodiversity monitoring, species distribution, conservation status, social-ecological dynamics, community and system ecology. Additionally, I specialize in plant germplasm conservation, exploring propagation protocols and assessing anthropogenic and natural pressures on plant communities.

## Publications

### a) Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
<b>Chauhan H.K.*</b> , Gallacher D., Bhatt A., Bisht A.K.	The Himalayas: a climate change laboratory	<i>Environmental Development</i> , 45: 100814 (Elsevier). <a href="https://doi.org/10.1016/j.envdev.2023.100814">https://doi.org/10.1016/j.envdev.2023.100814</a> (IF 5.4)	2023
Oli S., Tatrari G., <b>Chauhan H.K.</b> , Bisht A.K., Bhatt I.D.	Effects of Graphene-based metal composite and Urea on seed germination and performance of <i>Berberis chitria</i> Buch.-Ham. ex Lindl.	<i>Applied Biochemistry and Biotechnology</i> , 1-14 (Springer). <a href="https://doi.org/10.1007/s12010-023-04624-5">https://doi.org/10.1007/s12010-023-04624-5</a> (IF 3)	2023
Oli S., <b>Chauhan H.K.</b> , Bisht A.K., Agnihotri S., Dobhal P.	Bioactive compound, polyphenol content, and antioxidant activity of <i>Asparagus racemosus</i> Linn. root extract	<i>Natural Product Research</i> , 1-6 (Taylor and Francis) <a href="https://doi.org/10.1080/14786419.2023.2272029">https://doi.org/10.1080/14786419.2023.2272029</a> (IF 2.2)	2023
Lodhiyal L.S., Lodhiyal N., Gupta R., Tamta S., Siddiqui F., <b>Chauhan H.K.</b>	Vegetative propagation of <i>Berberis asiatica</i> Roxb. Ex DC., <i>Ginkgo biloba</i> L., <i>Rauvolfia serpentina</i> (L.) Benth ex Kurz, and <i>Rhododendron arboreum</i> Sm. through stem cuttings	<i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 2023:100509 (Elsevier) <a href="https://doi.org/10.1016/j.jarmap.2023.100509">https://doi.org/10.1016/j.jarmap.2023.100509</a> (IF 3.9).	2023
Agnihotri S., Dobhal P., Ashfaquallah S., <b>Chauhan H.K.*</b> , Tamta S. (2022).	Review of the botany, traditional uses, pharmacology, threats and conservation of <i>Zanthoxylum armatum</i> (Rutaceae)	<i>South African Journal of Botany</i> , 110: 920-927. (Elsevier) <a href="https://doi.org/10.1016/j.sajb.2022.08.038">https://doi.org/10.1016/j.sajb.2022.08.038</a> (IF 3.1).	2022
<b>Chauhan H.K.*</b> , Oli S., Bisht A.K., Meredith C., Leaman D.	Review of the biology, uses and conservation of the critically endangered endemic Himalayan species <i>Nardostachys jatamansi</i> (Caprifoliaceae)	<i>Biodiversity and Conservation</i> , 30: 3315-3333. (Springer) <a href="https://doi.org/10.1007/s10531-021-02269-6">https://doi.org/10.1007/s10531-021-02269-6</a> (IF 3.4).	2021
<b>Chauhan H.K.*</b> and Gallacher D.	Can citizen reporting apps plug the data gap in the Himalayan wildlife trade?	<i>Trees, Forest and People</i> , 6(2021): 100150. (Elsevier). <a href="https://doi.org/10.1016/j.tfp.2021.100150">https://doi.org/10.1016/j.tfp.2021.100150</a> (IF 2.7)	2021
<b>Chauhan H.K.*</b> , Gallacher D., Bisht A.K., Bhatt I.D., Bhatt A., Dhyani P., Kewlani P.	Variation of phytochemistry, morphology and population structure in <i>Trillium govaniatum</i> (Melanthiaceae)	<i>Botany (Formerly Canadian Journal of Botany)</i> 99(10): 651-664. (Canadian Science Publishing). <a href="https://doi.org/10.1139/cjb-2020-0140">https://doi.org/10.1139/cjb-2020-0140</a> (IF 1.1).	2021
<b>Chauhan H.K.*</b> , Bisht A.K., Bhatt I.D., Bhatt A.	Protocol for vegetative propagation of <i>Trillium govaniatum</i> Wall ex. D. Don.	<i>Journal of Applied Research on Medicinal and Aromatic Plants</i> , 16 (2020): 100233. <a href="https://doi.org/10.1016/j.jarmap.2019.100233">https://doi.org/10.1016/j.jarmap.2019.100233</a> (IF 3.9).	2020
<b>Chauhan H.K.</b> , Bisht A.K., Bhatt I.D., Bhatt A.	<i>Trillium</i> —toward Sustainable Utilization of a Biologically Distinct Genus Valued for	<i>The Botanical Review</i> , 85 (3): 252-272. (Springer) <a href="https://doi.org/10.1007/s12229">https://doi.org/10.1007/s12229</a>	2019

Gallacher D.	Traditional Medicine	<a href="#">-019-09211-0</a> (IF 4).	
<b>Chauhan H.K.,</b> Bisht A.K., Bhatt I.D., Bhatt A., Gallacher D., Santo A.	Population change of <i>Trillium govonianum</i> (Melanthiaceae) amid altered indigenous harvesting practices in the Indian Himalayas	<i>Journal of Ethnopharmacology</i> , 213, 302-310. (Elsevier). <a href="https://doi.org/10.1016/j.jep.2017.11.003">https://doi.org/10.1016/j.jep.2017.11.003</a> (IF 5.4).	2018

b) Policy documents (IUCN Red List Assessments)

Authors name	Species	No (Granted or filed)	Global Status	Year
<b>Chauhan H.K.*</b>	<i>Arnebia benthamii</i> <i>The IUCN Red List of Threatened Species</i>	e.T216172075A216202474 <a href="https://www.iucnredlist.org/species/216172075/216202474">https://www.iucnredlist.org/species/216172075/216202474</a>	Data Deficient	2023
<b>Chauhan H.K.*</b>	<i>Rheum australe</i> <i>The IUCN Red List of Threatened Species</i>	e.T216172244A216257305 <a href="https://www.iucnredlist.org/species/216172244/216257305">https://www.iucnredlist.org/species/216172244/216257305</a>	Data Deficient	2023
<b>Chauhan H.K.*</b>	<i>Meizotropis pellita</i> <i>The IUCN Red List of Threatened Species</i>	e.T216171980A216253140 <a href="https://www.iucnredlist.org/species/216171980/216253140">https://www.iucnredlist.org/species/216171980/216253140</a>	Critically Endangered	2022
<b>Chauhan H.K.*</b>	<i>Dactylorhiza hatagirea</i> <i>The IUCN Red List of Threatened Species</i>	e.T184558707A206539925 <a href="https://www.iucnredlist.org/species/184558707/206539925">https://www.iucnredlist.org/species/184558707/206539925</a>	Endangered	2022
<b>Chauhan H.K.*</b>	<i>Fritillaria cirrhosa</i> . <i>The IUCN Red List of Threatened Species</i>	e.T215323195A215336023 <a href="https://www.iucnredlist.org/species/215323195/215336023">https://www.iucnredlist.org/species/215323195/215336023</a>	Vulnerable	2022
<b>Chauhan H.K.*</b>	<i>Trillium tschonoskii</i> <i>The IUCN Red List of Threatened Species</i>	e.T18816841A84010024 <a href="https://www.iucnredlist.org/species/18816841/84010024">https://www.iucnredlist.org/species/18816841/84010024</a>	Endangered	2021
<b>Chauhan H.K.*</b>	<i>Nardostachys jatamansi</i> <i>The IUCN Red List of Threatened Species</i>	e.T50126627A88304158 <a href="https://www.iucnredlist.org/species/50126627/88304158">https://www.iucnredlist.org/species/50126627/88304158</a>	Critically Endangered	2021
<b>Chauhan H.K.*</b>	<i>Picrorhiza kurroa</i> <i>The IUCN Red List of Threatened Species</i>	e.T88304131A88304135 <a href="https://www.iucnredlist.org/species/88304131/88304135">https://www.iucnredlist.org/species/88304131/88304135</a>	Endangered	2021
<b>Chauhan H.K.*</b>	<i>Trillium camschatcense</i> <i>The IUCN Red List of Threatened Species</i>	e.T175803936A176257685 <a href="https://www.iucnredlist.org/species/175803936/192870411">https://www.iucnredlist.org/species/175803936/192870411</a>	Vulnerable	2021
<b>Chauhan H.K.*</b>	<i>Paris polyphylla</i> <i>The IUCN Red List of Threatened Species</i>	e.T175617476A176257430 <a href="https://www.iucnredlist.org/species/175617476/176257430">https://www.iucnredlist.org/species/175617476/176257430</a>	Vulnerable	2020
<b>Chauhan H.K.* and Bisht, A.K.</b>	<i>Trillium govonianum</i> <i>The IUCN Red List of Threatened Species</i>	e.T175804005A176257695 <a href="https://www.iucnredlist.org/species/175804005/176257695">https://www.iucnredlist.org/species/175804005/176257695</a>	Endangered	2020

c) Book chapters

Authors name	Title of the Chapter	Title of the Book	Publisher	ISBN	Year
<b>Chauhan H.K.</b> , Oli, S, Bisht A.K., Bhatt I.D.	Role of Plant Growth Regulators for Augmenting Secondary Metabolites Production in Medicinal Plants  <a href="https://doi.org/10.2174/9789815165227124010009">https://doi.org/10.2174/9789815165227124010009</a>	In Vitro Propagation and Secondary Metabolite Production	Bentham Science	978-981-5165-22-7	2024
<b>Chauhan H.K.*</b> , Oli, S, Bisht A.K., Bhatt I.D.	<i>Bischofia javanica</i> Blume.  <a href="https://doi.org/10.1016/B978-0-323-85591-4.00045-3">https://doi.org/10.1016/B978-0-323-85591-4.00045-3</a>	Himalayan Fruits and Berries	Elsevier	978-0-323-85591-4	2023
<b>Chauhan H.K.*</b>	Love Apple ( <i>Paris polyphylla</i> ): Biology, uses and conservation  <a href="https://doi.org/10.1016/B978-0-12-821139-7.00189-6">https://doi.org/10.1016/B978-0-12-821139-7.00189-6</a>	Imperiled: The Encyclopedia of Conservation	Elsevier	978-0-12-821139-7	2022
<b>Chauhan H.K.*</b>	<i>Nardostachys jatamansi</i> - An endemic Himalayan species in peril.  <a href="https://doi.org/10.1016/B978-0-12-821139-7.00158-6">https://doi.org/10.1016/B978-0-12-821139-7.00158-6</a>	Imperiled: The Encyclopedia of Conservation	Elsevier	978-0-12-821139-7	2022
<b>Chauhan H.K.*</b>	Kamchatka Trillium ( <i>Trillium camschatcense</i> ): Biology, uses and conservation.  <a href="https://doi.org/10.1016/B978-0-12-821139-7.00190-2">https://doi.org/10.1016/B978-0-12-821139-7.00190-2</a>	Imperiled: The Encyclopedia of Conservation	Elsevier	978-0-12-821139-7	2022
<b>Chauhan H.K.*</b> and Oli S.	Threats to the Mountain Woods Trillium ( <i>Trillium tschonoskii</i> )  <a href="https://doi.org/10.1016/B978-0-12-821139-7.00172-0">https://doi.org/10.1016/B978-0-12-821139-7.00172-0</a>	Imperiled: The Encyclopedia of Conservation	Elsevier	978-0-12-821139-7	2022
<b>Chauhan H.K.</b> , Bhatt, I.D. and Bisht, A.K.	Biology, Uses and Conservation of <i>Trillium govanianum</i>  <a href="https://doi.org/10.1007/978-3-030-32463-6_11">https://doi.org/10.1007/978-3-030-32463-6_11</a>	Socio-economic and Eco-biological Dimensions in Resource use and Conservation	Springer Nature	978-3-030-32463-6	2020
<b>Chauhan H.K.</b> and Bisht, A.K.	Making Himalayas Sustainable: Opportunities and Challenges in Indian Himalayan Region.  <a href="https://www.yumpu.com/en/">https://www.yumpu.com/en/</a>	Biotechnology for Sustainability Achievements, Challenges and	AIMST University, Malaysia Press	978-967-14475-2-9	2017

	<a href="#">document/read/59169414/bio-technology-for-sustainability-achievements-challenges-and-perspectives</a>	Perspectives.			
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\* Corresponding author

### Teaching details

Name of the course/paper	Department	University	Year
Plant Resource Utilization and Conservation	Botany	Kumaun University, Nainital	2019-till date
Applied Microbiology	Botany	Kumaun University, Nainital	2019-till date
Biostatistics	Botany	Kumaun University, Nainital	2019-till date
Cell and Molecular Biology	Botany	Kumaun University, Nainital	2019-till date

### Professional Memberships

Organization	Position	Year
IUCN-SSC, Medicinal Plants Specialist Board, Gland, Switzerland	Member	2020-2025
IUCN-SSC, Sustainable Use and Livelihood Specialist Group, Gland, Switzerland	Member	2023-2025
Global Mountain Biodiversity Assessment (GMBA), University of Bern, Institute of Plant Sciences, Altenbergrain, Bern, Switzerland	Member	2023-till date

### Honours and Awards

Award	Awarding Organization	Year
Best Paper Award in the National Seminar, Socio-Economic Impact of Ecological Ignorance in Development: Raising Disastrous Possibilities	Department of Botany, Govt, P.G. College, Dwarahat, Almora, Uttarakhand, India (2017)	2017
BSR-JRF/SRF	UGC, New Delhi	2014-2018
Uttarakhand State Eligibility Test (USET)	Kumaun University, Nainital	2015
Budding Botanist	Department of Botany, D.S.B. Campus, Kumaun University, Nainital	2011-2012

### Conference Presentations

Title of presentation	Conference/Seminar	Name of the institution	Year
Opportunities and Challenges in the development of herbal sector in Indian	National Seminar India and the fourth Industrial Revolution: Current Problems and	UPSA & UGC- Human Resource Development Centre, Kumaun University, Nainital	2018

Himalayan Region	Forecasting Challenges		
Commercial Extraction of Trillium govanianum Wall ex D.Don in Indian Himalayas	International Seminar, Environmental Governance and Sustainable Development in 21 <sup>st</sup> Century India: Challenges for the Mountain Regions in the Anthropocene	UPSA and UGC-Human Resource Development Centre, Kumaun University, Nainital	2017
Rapid Vulnerability Assessment of Trillium govanianum an endemic Medicinal Plant of Himalaya	National Seminar on Plants and Environment	Department of Botany, Kumaun University, Nainital	2017
Impacts of the ignorance of policy and sustainable extraction methods on the status of <i>Trillium govanianum</i> (Nagchatri) in Indian Himalayan Region	National Seminar on Socio-Economic Impact of Ecological Ignorance in Development Raising Disastrous Possibilities	Department of Botany, Govt. Post Graduate College, Dwarahat, Almora	2017
Decreasing Population of Trillium govanianum in the Indian Himalayan Region	National Seminar on Traditional Knowledge and Health Seeking Practices among the Himalayan Region Communities	Department of Sociology, School of Social Sciences Uttarakhand Open University, Haldwani (Nainital)	2016
Ecological Features of the Threatened Himalayan Medicinal Plant, Trillium govanianum Wall ex. D.Don	Uttarakhand State Council for Science and Technology Congress	UCOST, Dehradun	2016



**Signature of the faculty member**