

Dr. Aakriti Chauhan

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CARRER OBJECTIES

To obtain a suitable teaching and research position that offers challenges, regular knowledge and opportunities for growth.

RESEARCH WORK

MSc Research work: To study the impact of land uses on water quality.

PhD research work: Impact of intensive farming on natural resources in Shimla District of Himachal Pradesh.

SYNOPSIS

Dedicated Environmental Scientist with a Ph.D. in Environmental Sciences and substantial experience in academia and research.

Proven ability to conduct impactful research on soil and water quality, manage projects, and communicate effectively.

Currently serving as an Assistant Professor at Vivekananda Global University.

ACADEMIC & PROFESSIONAL QUALIFICATIONS				
Degree/ Certificate	Specialisation	School / College/Organisation	Year of Passing	OGPA/ Percentage
NET Qualified	Environmental Sciences	ICAR- Indian Council of Agriculture Research	2014	
Ph.D.	Environmental Sciences	Dr. Y. S.Parmar U.H.F Nauni(solan)	2016	82%
M.Sc.	Environmental Sciences	Dr. Y.S Parmar U.H.FNauni(solan)	2012	75.2%
B.Sc.	Biotechnology	Chandigarh groups of college, Landran Mohali	2010	76%
Class XII	Medical	St. Bedes College Shimla	2007	68%
Class X		D.A.V Sr. Sec. School Lakkar Bazar Shimla	2005	62%

PhD SUBJECTS

Major Subject: Environmental Sciences

Minor Subject: (i) Soil Science & Water Management (ii) Molecular Biology and Biotechnology

Crop Geography and Ecology, Soil and Water Pollution, Forestry and Environment,

Principles of Microbiology, Disaster Management, Experimental Designs, Renewable Sources of Energy, Advanced Environmental Monitoring Techniques, Waste Management, Agriculture Research, Research Ethics & Rural Development, Programmes, Soil Chemistry, Toxicology of Insecticides, Technical Writing and Communication Skills, Intellectual Property and its Management in Agriculture, Basic Concepts in Laboratory Techniques.

Ph.D. RESEARCH WORK

Title: **Impact of Intensive Farming on Natural Resources in Shimla District of Himachal Pradesh.**

Objectives:

1. To assess the soil health condition under different cropping systems.
2. To assess seasonal variation in water quality under different cropping systems.
3. To study bioaccumulation of heavy metals in aquatic insects under different cropping systems.

AREA EXPERTISE

Water pollution Monitoring
Soil Quality Monitoring
Aquatic Biodiversity Studies
Crop Modeling
Environment Impact Assessment.

WORK EXPERIENCE

- ☐ Currently working as an Assistant Professor in Vivekananda Global University, Jaipur (Joined on 1/2/2023).
- ☐ Worked as an Assistant Professor in APG University, Shimla from 1/9/2017 to 30/11/2021
- ☐ Worked as JRF in the FASAL (Forecasting Agriculture Output Using Space, Agro - Meteorology and Land Based Observations) Project funded by IMD Pune in the Dept. of Environmental Sciences, University of Horticulture and Forestry, Nauni Solan from July 1st 2015 to June 30th 2017.

INSTRUMENT HANDLING

- _ ICP-MS
- _ NOX, VOC, O₃ Gas Sampler
- _ GC-HPLC
- _ Respirable Dust Sampler

PROJECT COMPLETED (Seed fund by Vivekananda Global University)

1. Enhancing farmer's crop productivity by assessing soil of their agricultural land in Jaipur District
Funded by Small Industries Development Bank of India (SIDBI)
ROLE- Principal Investigator.

BOOK CHAPTER:

Enhancing water quality management through artificial intelligence and machine learning technologies. (Submitted and accepted by Elsevier Publisher)

RESEARCH PUBLICATION

1. **Aakriti Chauhan**, Meenakshi Dheer, Muhilan Mahendhiran, Radhika Pathania and Suresh Chand Sharma. 2024. Accumulation of Heavy Metals under Agriculture land in Jaipur District of Rajasthan. **Ecology, Environment and Conservation**. 30: 57-63.
2. **Aakriti Chauhan**, **Shashwat Arya**, **Tania Sharma** and **Deeplal**. A Review On Water Quality Analysis by Artificial Intelligence. International Journal of Current Research and Academic review. 12(1) 55-13.
3. **Aakriti Chauhan** and Meenakshi Dheer. 2023. Zero Budget Natural Farming for Sustainable Agriculture: A Review. **Journal of Earth Science & Climatic Change**. 14 (5): 1- 3.
4. Meenakshi Dheer and **Aakriti Chauhan**. 2023. Significance of Biodiversity in Higher Education: A Review. **Journal of Earth Science and Climate Change**. 14(5):1-3.
5. Abhinav, Nand Kishor Sharma, **Aakriti Chauhan**, Vishvendra Singh, Arjun Lal Choudhary, MP Ola, Raju Singh Jakhar, Pooja Tak, Babu Lal Choudhary. 2023. Evaluation of bio-agents and botanical in-vitro against root rot of chilli (*Capsicum annuum* L.) caused by *Rhizoctonia solani*. **The Pharma Innovation**. 12(5): 492-494.
6. **Aakriti Chauhan**, Verma S C, Bhardwaj S K, Sharma U, Gupta R K and Sharm R. 2016. Impact of cropping systems on physico-chemical characteristics of surface water during different seasons in Shimla region of Himachal Pradesh. **Journal of Applied and Natural Sciences**, 8 (1): 173 - 178
7. **Aakriti Chauhan** and Verma S C. 2016. Impact of land uses and seasons on physico-chemical characteristics of surface water in Solan district of Himachal Pradesh. **Nature, Environment and Pollution Technology**, 15(2): 667-672
8. **Aakriti Chauhan**, Verma S C and Bharadwaj S K . 2016. Assessment of Physico-chemical properties of ground water under selected land uses in Solan, Himachal Pradesh. **Environment and Ecology**, 34(3): 1495-1498
9. **Aakriti Chauhan** and Verma S C. 2016. Distribution and Diversity of Aquatic Insects in Himachal Pradesh, India: A Review, **International Journal of Current Microbiology and Applied Science**, 5(9): 273-281
10. **Aakriti Chauhan**, Verma S C and Thakur M. 2015. Bioassessment of Water Quality of Mountainous Streams under Different Land Uses in Solan District of Himachal Pradesh, India, **International Journal of Bio-resource and Stress Management**, 6(1):161-166.
11. **Aakriti Chauhan** and Verma S C. 2015. Impact of Agriculture, Urban and Forest Land Use on Physico-Chemical Properties of Water A Review. **International Journal of Current Microbiology and Applied Science**, 4(10): 18-22
12. **Aakriti Chauhan**, Verma S C, Bharadwaj S K and Gupta K. 2014. Monitoring of heavy metals in surface and ground water sources under Different land uses in Solan, Himachal Pradesh. **International Journal of Agriculture, Environment & Biotechnology**, 7(3): 613-619.
13. Gupta K, Verma S C, Thakur M and **Aakriti Chauhan**. 2014. Impact of land uses on surface water quality and associated aquatic insects at parwanoo area of solan district of Himachal Pradesh, India. **International Journal of Bio-resource and Stress Management**, 5(3): 427-431.

CONFERENCE

1. 2nd National conference on Challenges and opportunities of **Natural Farming 3-4, Nov 2023** at Vivekananda Global University, Jaipur.
2. **International conferences on entomology** February 21-23, 2014 Punjabi University Patiala Presented Poster.

3. **International conference on Bioresources and Stress management**, at Prof. Jayashankar Telangana State Agricultural University and Acharya N G Ranga Agricultural University, Hyderabad, India w.e.f. 7-10 January 2015.
4. National Conference on Importance of minor millets on entrepreneurship and human health (IMMEHH-2024); 29-30 March 2024 at Vivekananda Global University, Jaipur.

TRAINING/WOKSHOP

1. NEP 2020 Orientation & Sensitization programme by UGC Malaviya Mission Teacher Training Programme (MMTTP), Jawaharlal Nehru University, and New Delhi from 18th to 28th March 2024.
2. FDP on Integrating Technology to Teaching and Learning Pedagogy 1st to 8th February 2024.
3. Patent writing workshop & IPR Workshop 19th August 2023 at VGU, Jaipur.
4. Certificate cum Training under Agri-skill India (ASI-2023) 9th to 29th April 2023.
5. Navigating the Intellectual Property Minefield: A Hands on workshop on Prior Art, Patent, Search, and Claims Drafting. 31st August and 1st September 2023.
6. **Use of RS and GIS linking with crop simulation model for crop yield forecast** at Department of Agricultural Meteorology, CCS HAU, Hisar w.e.f. 14th March to 23rd 2017 March sponsored by IMD, Ministry of Earth Science, New Delhi.
7. **Climate reality project training** at New Delhi w.e.f. 22nd to 24th Feb 2015

COURSES:

1. **Ecology: Ecosystem Dynamics and conservation by Coursera.**

Certificate of Reviewing

1. Certificate of Excellence in Reviewing International Journal of Environment and Climate Change.
2. Certificate of Excellence in Peer-Reviewing a book by BP international publishers.
3. Certificate of Excellence in Reviewing International Journal of Plant and Soil Science.

COMPUTER PROFICIENCY

Fully conversant with basic functions of MS-OFFICE like word, excel and PowerPoint.

STRENGTH

Research and analytical skills.
Communication Skills.



I hereby declare that the information provided by me is true to best of my knowledge and belief.