

Aditi Panatu Scientific Professional

EXPERIENCE

March, 2019–Till Date

Scientific Professional • State Centre on Climate Change, O/o HIMCOSTE Shimla, Himachal Pradesh

July, 2021–Till Date

(Additional charge) • HIM-INNOVATE Incubation Centre, O/o HIMCOSTE Shimla, Himachal Pradesh

March, 2018–March, 2019

Project Associate • Science Popularization Programme, O/o HIMCOSTE Shimla, Himachal Pradesh

EDUCATION

Qualification	School/Institute	Board/University/	Year	%age
		Institute		
Matriculation	SVM-Baddi, Solan	HPBoSE	2010	85%
Secondary	SVM-Vikasnagar,	CBSE	2012	65%
	Shimla			
B.Sc. (Hons.)	St. Bede's College,	HPU	2015	69%
Biotechnology	Shimla			
M.Sc.	Shoolini University,	Shoolini University	2017	82%
Biotechnology	Solan			

SPECIALIZATION AT MASTER LEVEL

Molecular cloning

CURRENT INTERESTS

Climate Change, Impact of climate change in agriculture/horticulture/forestry, Field explorations including forestry, Questionnaire-based survey & awareness, Scientific article/report writing, Banner/Brochures/Pamphlets Designing and Entrepreneurship programs (Start-ups) etc.

TECHNICAL SKILLS

Instruments handled: Familiar to Incubators, Centrifuges, Shaker, Spectrophotometer, LAF, pH meter, Autoclave,

Microscope, PCR cycler, Gel doc

Molecular biology skills: Isolation of DNA and RNA, Plasmid isolation, Gel electrophoresis, PCR, Restriction

digestion, Transformation, Cloning

Microbiology Skills: Figured disinfection and sterile techniques, bacterial staining, plating methods, use of

biological safety cabinets, media preparations, identification of bacteria

Immunological skills: Executed Blood sampling and testing

Computational skills: Microsoft Word, PowerPoint, Bioinformatics (making degenerate primers for gene, BLAST, Clustal W and Phylogenetic analysis)

Biostatistics: Analyzed (SPSS software), Excel-Stat

PROJECT

Understanding the Nature of Alpine Timberlines of Himalayas: Integrating Ecological and Scenario Studies for Assessing the Impact of Climate Change. A joint project with CSIR-IHBT Palampur (Duration: March 2019 to December 2021).

PUBLICATIONS

- Priyanka Sharma, Harish Bharti, Aditi Panatu, S.S. Randhawa, R.S. Rana and Nishant Thakur. (2022) Impact of Climate Change on Agriculture Production in District Kinnaur, Himachal Pradesh. Journal of Biodiversity. Vol. 13(1-2): 14-23 DOI: 10.31901/24566543.2022/13.1-2.104
- Bharti H, Sharma P, Panatu A, Randhawa SS and Thakur N. 2021. Impact of Climate Change on Agriculture, Horticulture and Forestry in Himachal Pradesh- A Review. Journal of Research: The Bede Athenaeum Vol. 12 (1): 67-32 DOI: <u>10.5958/0976-</u> <u>1748.2021.00007.2</u>

CONFERENCE AND SEMINARS ORGANIZED

- 1. Assisted in organizing 5 days workshop on **"Innovative Experiments in Physics"** at Conference Hall HFRI, Panthghati, Shimla w.e.f. 15-19 May, 2018.
- Assisted in organizing 4 days "North regional Training workshop on Teaching Mathematics through Origami" at State Institute of Health & Family Welfare Training Centre (SIHFW) Parimahal Shimla w.e.f. 24-27 July, 2018.
- 3. Organized Popular Lecture Series at district headquarter colleges on following dates:

S. No. 1.	Colleges	Dates
1.	GDC, Sanjauli Shimla	17 July, 2018
2.	GDC, Hamirpur	2 August, 2018
3.	GDC, Nahan	8 August, 2018
4.	GDC, Solan	9 August, 2018
5.	SM Convention Centre, Palampur	28 September, 2018
6.	GDC, Chamba	10 October, 2018
7.	RKMV, Shimla	20 November, 2018
	Kotshera College	21 November, 2018
8.	GDC, Mandi	27 November, 2018
9.	GDC, Kullu	10 December, 2018
10.	GDC, Bilaspur	11 December, 2018

4. Assisted in organizing **"26th Himachal Pradesh Children's Science Congress"** at Chamba Chogan w.e.f. 9-12 October, 2018.

- Assisted in organizing "3rd Himachal Pradesh Science Congress" at IIT Mandi on 22-23 October, 2018.
- Assisted in organizing "National Science Day 2019" at Gaiety Theatre on 28 February, 2019.
- Assisted in organizing 2 days regional workshop on "Challenges in Disaster Risk Management" on 22-23 October, 2019.
- Assisted in organizing "27th Himachal Pradesh Children's Science Congress" at Govt. Senior secondary School Bilaspur on 13-16 November, 2019.
- Assisted in organizing "Wildlife & Environment Film Festival" at Govt. Sr. Sc. School (Girls) Bilaspur w.e.f. 13-16 November, 2019.
- Organized webinar on "Cryosphere under Warm Climate: Effect on Water Security" organized by State Centre on Climate Change under the aegis of Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), Shimla and Divecha Centre for Climate Change, IISc Bengaluru on 1st February, 2021.
- 11. Assisted in organizing half day workshop on "Brain storming discussions on Draft document of STI Policy of the State HP" on 26 March, 2021.
- Assisted in organizing Glorious Science Week "Vigyan Sarvatra Pujyate" from 22nd -27th February, 2022 at Govt. Degree College, Sanjauli, Shimla.
- 13. Assisted in organizing a Three-Day Training Program on "Safe Hill Area Development" on 15th -17th June, 2022 at Jointly Organized by Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), Shimla, Himachal Pradesh in collaboration with National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Govt. of India, New Delhi at SAMETI Mashobra, Shimla, H.P.
- 14. Assisted in organizing a workshop on "Sensitization of Policy Makers and Administrators on Climate Change and its Impacts on the Mountain Ecosystem" organized by State Centre on Climate Change (SCCC) under the aegis of Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), Shimla, Himachal Pradesh in Collaboration with Divecha Centre for Climate Change (DCCC) Indian Institute of Science (IISc), Bangalore, Karnataka on 30th June, 2022 at Hotel

Holiday Home (HHH) Shimla, H.P.

15. Organized webinar on "Azadi ka Amrit Mahotsav- One month One Theme" for the first month on theme "STI Institutions at State level" for the month of September, 2021 and "Innovation & Start-up" for the month of January, 2022 and assisted in organizing webinars on other themes of Azadi ka Amrit Mahotsav.

CONFERENCE AND SEMINARS ATTENDED

- 1. Attended workshop on "Intellectual Property Rights (IPR) and Geographical Indications (GI)" in 2017.
- 2. Attended 2 days **"Consultation meeting"** on ReDD+ Himalaya Project at HFRI, Panthaghati on June 2019.
- Attended 2 days training programme on "Institutionalizing capacities on Climate Change for Senior Level State functioning, practioners, sectoral experts from Northern Region" at HHH, Shimla on 20-21 February 2020.

WEBINARS/E-TRAINING/TRAININGS/INTERNSHIPS

- 1. One month observer ship from "Aishwarya Lifusion" Baddi, Solan session 2013.
- One month training in "Microbiology and Biochemistry Department" from IGMC Shimla session 2016.
- Attended webinar on "World Environment Day" on 4 June 2020 organized by HP ENVIS Hub, HP Council for Science, Technology & Environment (HIMCOSTE) Shimla.
- 4. Attended webinar on 3 days International Training Programme on "Crisis and Disaster Management" w.e.f. 8-10 July 2020, jointly organized by the National Institute of Disaster Management, Ministry of Home Affairs, Government of India, and the Department of Social Work (Aided), Madras Christian College.
- Attended webinar on "Cloudburst and Flood" 21 July, 2020 organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with India Meteorological Department, Ministry of Earth Sciences, GoI.

6. Attended webinar on national webinar on "COVID-19 and its link with Environment and its biodiversity", organized by High Altitude Regional Centre, Zoological Survey of India, Solan (HP) on 28th July, 2020 on World Nature Conservation Day.

- Attended webinar on "International Day for the Preservation of Ozone Layer" on 16th September, 2020 organized by HP ENVIS, HIMCOSTE Shimla.
- Attended webinar on "Wild life Week-Wildlife and Its Conservation" w.e.f. 2-8 October, 2020 organized by HP ENVIS Hub, HIMCOSTE, Shimla.
- 9. Attended 3 days online training programme on "Hill Area Environment and Development with focus on Earthquakes, Landslides and Floods" w.e.f. 21-23 October, 2020, organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with Himachal Pradesh State Disaster Management Authority, Govt. of Himachal Pradesh.
- Attended e-training programme on "Bonsai Technology" held on 10th November, 2020 organized by Botanical Garden Division, CSIR-National Botanical Research Institute, Lucknow India.
- Attended webinar on "International Mountain Day-2020" on 11th December, 2020 organized by NMHS-PMU, GB Pant National Institute of Himalayan Environment, Almora.
- 12. Attended webinar on One Day Regional Workshop on "Forestry Research, Sustainable Forest Management and Livelihood" organized by HFRI, Shimla and sponsored by NABARD, Shimla on 17th March, 2021 through physical/virtual mode.
- 13. Attended, participated & contributed an abstract entitled "Climate variability assessment on Agriculture crops in district Sirmour, Himachal Pradesh, India" at the two-day National Conference on "Current Scientific Innovations & Research in Plant Biology (CSIR-PB) 2022" organized by Department of Botany, Akal College of Basic Sciences, Eternal University, Baru Sahib, Sirmaur H.P. on 27-28 May, 2022.
- Attended "Himalayan Start-up Trek 2022 (Masterclass for Incubators)" at IIT Mandi on 26th August, 2022.

Declaration

I hereby declare that the details and information given above are complete and true to the best of my knowledge.

Aditi Panatu