

Detail CV

Dr. Mohd. Hanief

Designation: Assistant Professor

Address : Department of Botany
School of Biosciences & Biotechnology
Baba Ghulam Shah Badshah University
Rajouri (J&K), India-185234

Contact Details:

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Specialization

Plant Ecology and Eco-physiology

Areas of Interest

Land use/cover dynamics, Remote Sensing and GIS, Ecosystem Level Study, Vulnerability, Adaptation and Mitigation to climate change; Above Ground and Below Ground Carbon, Nitrogen Sequestration and Dynamics Research in Different Ecosystems, Soil Nutrient Management, Plant Nutrition, Agroecology Researches, Conservation of Forest vegetation, Soil and Water; Sustainable Management of Natural Resources and Rural Development Practices/approaches.

Career Profile

Institution	Designation	Duration	Role
Hansraj College, University of Delhi, Delhi-110007	Assistant Professor	July,2015 to July, 2017	Teaching and Research
Sri Guru Tegh Bahadur Khalsa College, University of Delhi, Delhi-110007	Assistant Professor	July, 2009 to March, 2010	Teaching and Research
Department of Higher Education, Govt. Of J&K. GDC Thanamandi, Botany Department	Assistant Professor	July, 2017 to September, 2017	Teaching and Research
BGSB University, Department of Botany, Rajouri (J&K)-185131	Assistant Professor	September, 2017 To Contd.....	Teaching and Research

Educational Qualifications

Degree	Institution	Year
Ph.D.	University of Delhi (DU), Delhi-110007	2017
M.SC.	University of Delhi (DU), Delhi-110007	2009
B.SC.	University of Jammu, Jammu-180001	2007
Any other Qualification	CSIR-UGC- JRF(NET)	June, 2009

Ph.D. Thesis Title:

Land Use/Land Cover Change and Associated Ecosystem Soil Carbon Dynamics in a Mountainous Watershed in North Western (Kashmir) Himalaya, India

Awards (National):

- ❖ Awarded CSIR-UGC Junior Research Fellowship (JRF), 2010-2012
 - ❖ Awarded CSIR-UGC Senior Research Fellowship (SRF), 2012-2015
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Memberships of learned Societies and Bodies:

- ❖ Life time member Delhi University Botanical Society (DUBS), Delhi.
 - ❖ Member National Institute of Ecology (NIE), Delhi.
 - ❖ Life time member Society for Environment and Development (SEDINDIA), New Delhi.
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List of projects submitted:

Sl. No.	Title of the project	Name of Organization	Status
01	Enhancing alternate livelihood options and employment generation to reduce tribal women and girls drudgery through innovative and eco-friendly technologies in Pir Panjal mountain region of north western (Kashmir) Himalaya	National Mission on Himalayan Studies (NMHS) Ministry of Environment, Forests and Climate Change, Government of India	Under process
02	Floristic assessment, ecological analysis and CO₂ mitigating potential of different forest ecosystems in Pir Panjal mountain region, north western (Kashmir) Himalaya, India.	UGC-startup	Under process

Research Publication:

Published Paper (Referred and Peer Reviewed Journal):

- Meena, A, **Hanief, M**, Bidalia, A, Dinakaran, J, and Rao, K. S. 2019. Assessment of above and belowground carbon pools in a semi-arid forest ecosystem of Delhi, India. *Ecological Processes*.
- Bidalia, A, Z, Okram, **Hanief, M**, and Rao, K. S. **2017**. Assessment of tolerances in *Mitragyna parvifolia* (Roxb.) Korth. and *Syzygium cumini* Keels. seedlings to waterlogging. *PHOTOSYNTHEICA*. DOI: 10.1007/s11099-017-0724-1
- **Hanief, M**, Bidalia, A, Meena, A and Rao, K. S. **2016**. Natural regeneration dynamics of dominant tree species along an altitudinal gradient in three different forest covers of Darhal watershed in north western Himalaya (Kashmir), India. *Tropical Plant Research*. 3(2): 253–262.

- Dinakaran, J, Bidalia, A, Kumar, A. **Hanief, M**, Meena, A and Rao, K. S. **2016**. Near infrared-spectroscopy for determination of carbon and nitrogen in Indian soils. *Communications in Soil Science and Plant Analysis*. 47 (12):1503-1516
- Bidalia, A, **Hanief, M**, and Rao, K. S. **2016**. Tolerance of *Mitragyna parvifolia* (Roxb.) Korth. Seedlings to NaCl salinity. *PHOTOSYNTHEICA*. 55 (2): 231-239
- Meena, A, **Hanief, M**, Bidalia, A and Rao, K. S. 2016. Structure, Composition and Diversity of Tree Strata of Semi-Arid Forest Community in Delhi, India. *Phytomorphology*. 66(3&4):95-102
- Dinakaran, J, **Hanief, M**, Meena, A and Rao, K. S. **2014**. The Chronological Advancement of soil Organic Carbon Sequestration Research: A Review. *Proceeding of National Academy of Sciences, India, Section B Biological Sciences*. (July–Sept 2014) 84(3):487–504 DOI 10.1007/s40011-014-0320-0.

Research papers Communicated:

- Dinakaran, J, Krati Vikram, **Hanief, M**, Bidalia, A, Subodh Tambat and Rao, K. S. 2019. Changes in vegetation cover and soil intrinsic properties influence the soil bacterial community composition and diversity across different climatic regions of India in *Pedobiologia - Journal of Soil Ecology*.

Research papers under preparation

- Land use/land cover dynamics in Darhal watershed in Pir Panjal mountain region of Jammu and Kashmir, India.
- Effects of land use and land cover types and its changes on the storage of organic carbon, nitrogen and CO₂ mitigation potential in a mountainous watershed of north western (Kashmir) Himalaya, India

- Soil organic carbon chemical stabilization and ^{13}C natural abundance in different land use land cover types.

Conferences/Seminars/Workshops Attended and Participated:

- Participated in National workshop on **Reproductive Biology of Flowering Plants for their Conservation and Improvement** sponsored by Department of Science and Technology and University of Delhi and organized by Delhi University Botanical Society in 2012.
 - Participated in regional training workshop on **Factoring Environmental Flows into Integrated water Resource Management** organized by **National Institute of Ecology** jointly with the **Central Inland Fisheries Research Institute (ICAR), Barrackpore** and supported by the **Cap-Net, Pretoria, at Gurukul Kangri University, Haridwar (Uttarakhand)** in 2012.
 - Participated in **workshop on the ecosystem services of River Ganga** organized by MOEF, WWF and NIE, in Delhi in 2014.
 - Participated in **Hands on training cum capacity building workshop for photosynthesis assessment methods and data interpretations** organized by Department of Botany, University of Delhi from 9th February to 20th February 2015.
 - Participated in **National Conference on Plant Science Research: Looking Beyond 21th Century for Environmental & Agricultural Revolution**, organized jointly by Society for Plant Research and Department of Botany, University of Delhi from 5th to 7th February, 2016.
 - Participated in **National Seminar on new Vistas in Plant and Microbial Sciences**, organized by department of Botany, University of Jammu (under UGC Special Assistance Programme) from 11th to 12th March, 2016.
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- Participated in **Certificate Training on Collaborative Mini-Course on “ The Fate of Carbon in Forests: A Functional Traits Approach”** organized by National University of Mexico and Department of Botany, University of Delhi from 25th to 26th July, 2016.
 - Participated in **National Workshop on Ethnobotany**, organized by Department of Botany, Hansraj College and Institute of Life Long Learning (ILLL), University of Delhi from 16th to 17th September, 2016.

- Participated in **National Faculty Development Workshop on “Ecology: Modern Perspectives”** organized by Department of Botany, Hansraj, University of Delhi from 12th to 13th December, 2016
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Techniques Expertise:

- *CHNS Elemental Analyzer*
 - *Flame Photometer*
 - *Graphite Atomic Absorption Spectroscopy (GAAS)*
 - *Furnace Atomic Absorption Spectroscopy (FAAS)*
 - *Portable Photosynthesis System-Infra Red Gas Analyzer (IRGA)*
 - *Remote Sensing and Geographical Information System (RS-GIS)*
 - *Techniques of Soil and Plant Sampling and Analysis*
 - *NIR-Spectroscopy*
 - *Techniques of Terrestrial Ecosystem Carbon Pool Budgeting and Carbon Sequestration*
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Extra-Curricular Achievements

- *Secretary General of Delhi University Botanical Society for the year 2011-2012.*
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Personal Skills

- *Good at public speaking.*
- *Good organizational skills.*
- *Good writing skills.*
- *Knowledge of basic computer programs.*
- *Keen learner of new things.*

Address:**Present Address:**

Department of Botany
School of Biosciences & Biotechnology
Baba Ghulam Shah Badshah University
Rajouri (J&K) – 185234, India

Permanent Address:

House No. 135
Village- Chawa
District- Rajouri
Jammu & Kashmir- 18513, India.

Signature of PI

S/D

Name: Dr. Mohd Hanief

Date: 13-03-2019

Place: Rajouri (J&K)