

Dr. (Mrs.) Rashmi T. Chamoli

Assistant Professor | Agroforestry

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PROFESSIONAL PROFILE

Experienced academician, researcher and forestry professional with extensive experience in **teaching, research, silviculture, agroforestry, plant physiology, nursery management, biodiversity conservation and rural development**. Experienced in teaching undergraduate students, conducting field-based research, developing forestry nurseries, organizing academic programmes, coordinating scientific events, and contributing to research publications and projects.

Currently serving as **Assistant Professor in the Department of Silviculture & Agroforestry, College of Forestry, Uttarakhand University of Horticulture & Forestry, Ranichauri, Uttarakhand**.

CURRENT POSITION

Assistant Professor

Department of Silviculture & Agroforestry College of Forestry, Uttarakhand University of Horticulture & Forestry Ranichauri, Uttarakhand

Area of Teaching & Expertise:

- Silviculture and Agroforestry
- Management and Productivity in Agroforestry
- Forest Biometry
- Soil Biology and Fertility
- Wood Products and Utilization
- Plant Physiology
- Forestry
- Ecology
- Biodiversity and Conservation
- Extension Education and Rural Development
- Mushroom Cultivation
- Rural Agriculture Work Experience

PROFESSIONAL EXPERIENCE

1. Assistant Professor (Forestry)

Uttarakhand University of Horticulture & Forestry, College of Forestry, Ranichauri, Uttarakhand
August 2024 – Present

- Teaching undergraduate courses in Forestry, Silviculture and Agroforestry.
- Conducting practical and field-based teaching and training.
- Guiding students in academic, research and field activities.
- Participating in departmental, university and scientific activities.

2. Assistant Professor (Forestry)

Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun, Uttarakhand November 2016 – July 2024

Duration: 7 years 8 months

- Teaching Forestry and allied subjects.
- Conducting practical classes, field activities and student training.
- Participating in research, seminars, conferences and institutional academic activities.

3. Assistant Professor (Forestry)

Uttaranchal College of Technology and Bio-Medical Sciences (UCTBMS), Dehradun April 2013 –October 2016

Duration: 3 years 6 months

- Teaching Forestry and allied subjects.
- Conducting practical and field-based academic activities.

4. Research Associate

Silviculture Division, Forest Research Institute (FRI), Dehradun May 2007 – March 2009

Duration: 1 year 10 months

Worked on an NMPB-funded project entitled:

“Development of Silvicultural Practices for Promoting Cultivation of *Taxus baccata*, *Rhododendron arboreum* and *Phyllanthus amarus*.”

Major responsibilities included nursery establishment and management at:

- Mandal – approximately 1650 m elevation
- Chakrata – approximately 1800 m elevation

5. Project Coordinator

Himalayan Environment Studies and Conservation Organization March 2005 April 2007

Duration: 2 years 1 month

- Project coordination and management.
- Organization and implementation of field-based activities.
- Community-oriented environmental and conservation activities.

6. Project Coordinator / Trainer

Uttarakhand Self Employees' Village Development Industries Organization, Srinagar January 1999 – August 2001

Duration: 2 years 7 months

- Organized training programmes.
- Conducted community-oriented training activities.
- Facilitated formation and development of Self-Help Groups (SHGs).

RESEARCH EXPERIENCE

- Approximately six years of research experience in **Plant Physiology**, including standardization of optimum doses of fertilizers, biofertilizers and growth hormones and studies related to plant enzymes.
- Experience in biochemical and chemical analysis of plant parts and soil samples.
- Established nurseries through seeds and clones of *Albizia lebbeck* and *Dalbergia sissoo*.
- Research experience in the **Silviculture Division, Forest Research Institute, Dehradun**, under an NMPB-funded project.
- Experience in nursery establishment and silvicultural practices for medicinal and multipurpose tree species.
- Experience in forestry, agroforestry, plant physiology, biodiversity and environmental research.

EDUCATIONAL QUALIFICATIONS

Degree	Subject	Year	University / Institute
Ph.D.	Forestry	2003	Forest Research Institute, Dehradun
M.Sc.	Forestry	1996	HNB Garhwal University, Srinagar
B.Sc.	Forestry & Botany	1994	HNB Garhwal University, Srinagar

Ph.D. Research Topic

“Effect of Phosphorus on Nitrogen Uptake, Assimilation, Fixation and Biomass Production in *Albizia lebbeck* Benth.”

RESEARCH PUBLICATIONS

1. Tomar, A., Kumar, D., Chauhan, B. and **Rashmi T. Chamoli** (2008). *Seed studies of three Ficus tree species: Important keystone plant resource*. ENVIS Forestry Bulletin, Forest Research Institute, Dehradun, Vol. 8(1).
2. **Rashmi Thapliyal**, S.P. Chaukiyal and T.C. Pokhriyal (2009). *Effect of nitrogen and phosphorus doses on the nitrogen fixation activity of Albizia lebbeck plants in nursery*. Improvement and Culture of Nitrogen Fixing Trees, Vol. 11(1).
3. Tomar, A., **Rashmi Chamoli** and V.R.R. Singh (2010). *Effect of nitrogen and phosphorus on the biomass production of Phyllanthus amarus at nursery stages*. The Indian Forester, 136(8).
4. **Rashmi T. Chamoli**, Shikha Minj and Vikaspal Singh (2019). *Phytochemical characters of Nyctanthes arbor-tristis Linn.: A promising medicinal plant*. Journal of Medicinal Plant Studies, 7(6): 141–143.
5. Koireng, T.M., Vikaspal Singh, Anil Kumar Uniyal and **Rashmi T. Chamoli** (2020). *Study of land-use pattern under different agroforestry systems in a part of Manipur, North-East India*. ENVIS Bulletin Himalayan Ecology, Vol. 28.
6. **Rashmi T. Chamoli**, Vikaspal Singh and A.K. Uniyal (2021). *Effect of different doses of nitrogen and phosphorus fertilizers on nitrogenase activity in nodule of Albizia lebbeck Benth.* Indian Journal of Plant Science, 10: 1–5.
7. Rana, D., Saini, N., **Rashmi Chamoli**, Kumar, S. and Majumder, S. (2022). *Effect of cadmium on germination and seedling growth of Cicer arietinum, Cv. G130*. International Journal of Plant and Environment, 8(4): 32–35.
8. Dai, O., Vikaspal Singh, **Rashmi T. Chamoli** and A.K. Uniyal (2023). *Traditional and biocultural potential of Toko plant (Livistona jenkinsiana Griff) in East Siang District, Arunachal Pradesh*. Journal of Agriculture & Forestry Research, 2(1): 44–51.
9. Pillai, A., Panicker, A., Kumar, M., Goswami, S. and **Dr. Rashmi Chamoli** (2023). *The scope and relevance of a socioeconomic survey – A case study in sustainable development of selected localities in Village Ashwini*. International Journal of Research Publication and Reviews.

10. Kumar, M., Panicker, A., Pillai, A., **Dr. Rashmi Chamoli** and Goswami, S. (2023). *Comparative study of socio-economic status in selected localities of villages in Kerala*. International Journal of Research Publication and Reviews / IJCRT.
11. Chiri, A., Kumar, M., Vikaspal Singh, Goswami, S., Uniyal, A.K. and **Rashmi T. Chamoli**. *Study of forest fire incidences and management in Mussoorie Forest Range, Dehradun, Uttarakhand, India*. ENVIS Bulletin. Under review.
12. Uniyal, A.K., Silvia, K., Vikaspal Singh and **Rashmi T. Chamoli** (2023). *Potential of non-timber forest products in the household income of Tengnoupal District, Manipur*. Research Journal of Agriculture & Forestry Sciences, 11(2): 28–32.
13. Bhatt, H., **Rashmi T. Chamoli**, Thapliyal, S., Saini, N. and Dobhal, S. (2024). *Harsingar: The holistic healer – Uncovering the medicinal benefits of the Parijat flower*. Journal of Pharmacognosy and Phytochemistry, 13(6): 30–34.
14. **Rashmi T. Chamoli**, Macderric K. Ryntong, Shubham Thapliyal, Pankaj Lal, Sandhya Goswamy, Anil Uniyal, Shalini Singh, Sneha Dobhal, Manju Rani, Hemlata Bhatt, Aditi Dhyani, Arun Bhatt and Neha Saini. *Fermentation-Based Bio-Ethanol Production: A Study on Agro-Waste Utilization with Saccharomyces cerevisiae*.

BOOK CHAPTERS

1. Rani, M., **Rashmi T. Chamoli** and Renu Dixit. *Ethno-botanical and pharmacological studies on Cordia myxa: A review*. In: **Lesser Known Plants, Conservation, Management and Sustainable Utilization**, pp. 165–174. Walnut Publication, 2021.
2. Sangma, B.C., Goswami, S., **Rashmi T. Chamoli**, Vikaspal Singh, A.K. Uniyal and Manish Kumar. *Indigenous Traditional Medicine Application by Traditional Healers in Garo Hills, Meghalaya, India*. In: **Biodiversity in the Service of Mankind**, pp. 202–221. Walnut Publication, 2022.
3. Brijmohan, **Rashmi T. Chamoli**, Vikaspal Singh Rawat, Sandhya Goswami, A.K. Uniyal, Manish Kumar and Manju Rani. *Relation of Crown Competition Factor to D.B.H. for Open-Grown Shorea robusta Stand*. In: **Biodiversity in the Service of Mankind**, pp. 131–138. Walnut Publication, 2022.
4. Dixit, R., Rani, M., **Rashmi T. Chamoli** and Jitendra Kumar. *Effect of Pesticides on Plant and Human Health: A Review*. In: **Biodiversity in the Service of Mankind**, pp. 60–65. Walnut Publication, 2022.
5. Thapliyal, S., Dobhal, S., Sharma, S., Kumar, A., Lal, P. and **Rashmi T. Chamoli**. *Designing Climate-Smart Agroforestry Systems: Participatory Planning, Agroforestry Development and Business Models*. In: **Modern Practices in Agriculture, Horticulture and Forestry**, pp. 16–36. National Press Associates.
6. Negi, N., Dobhal, S., Thapliyal, S., Chaudhary, S., Tewari, S., Lal, P., Manaula, S., Bhatt, S., **Rashmi T. Chamoli** and Raj Kumar. *Scope and Opportunity of Entrepreneurship Development in Forestry Sector*. In: **Entrepreneurship Development in Agricultural Sector: Opportunity and Challenges**, pp. 64–81.
7. Munaula, S., Dobhal, S., Pratap, U.B., Porswal, A., Lal, P. and **Rashmi T. Chamoli**. *Forest Robotics: Technology, Applications and Challenges*. In: **Modern Practices in Agriculture, Horticulture and Forestry**, pp. 94–103. National Press Associates.
8. Barthwal, P., Dobhal, S., Manaula, S., Bhatt, S., **Rashmi T. Chamoli**, Lal, P., Pratap, U.B., Kumar, A. and Raj Kumar. *Natural Resources Management in Semi-Arid Region: Current Practices, Challenges and Future Strategies*. In: **Sustainable Agriculture Management in Semi-Arid Climates**.

PROJECT EXPERIENCE

Co-Principal Investigator

Project: *Development of Forestry Models in Farmers' Participatory Mode for Enhancing Farm Income and Mitigating Climate Change in Uttarakhand.*

Funding Agency: RKVY Scheme, Government of Uttarakhand.

ORAL RESEARCH PAPER PRESENTATIONS

- Presented a research paper at the **7th International Conference on Global Approaches in Agricultural, Biological, Environmental and Life Sciences for Sustainable Future (GABELS-2024)**, Kathmandu, Nepal, 8–10 June 2024.
- Presented research at the National Workshop/Conference on **Interdisciplinary Approach of Statistical Techniques in Research Methodology (IASTRM)**, HNB Garhwal University, 25–27 May 2023.
- Presented a paper entitled “**Effect of Different Doses of Phosphorus and Nitrogen on the Nodular Nitrate Reductase Activity in *Albizia lebbeck* Benth. Seedlings**” at an International E-Conference on Emerging Strategies in Antimicrobial Agents and Bio-Innovations, December 2020.
- Presented “**Wonderful Plant of *Nyctanthes arbor-tristis* Linn.**” at the Uttarakhand State Science and Technology Congress, 27–29 February 2020.
- Presented research on **documentation of traditional knowledge regarding wild plants used by tribal people of Tulashikhor, Khowai, Tripura** at a National Seminar on Biodiversity in the Service of Mankind.

POSTER PRESENTATIONS

1. *Effect of different doses of nitrogen on the biomass production of *Phyllanthus amarus* at nursery stages.* Uttarakhand Science & Technology Congress, 2009.
2. *Application of seed testing and pre-treatment for enhancing seed production and early transplanting of seedlings of *Cassia siamea* in the nursery.* Uttarakhand Science & Technology Congress, 2009.

SEMINARS, CONFERENCES & SCIENTIFIC EVENTS

- Organized one-day National Seminar on “**Biodiversity Conservation and Advanced Technology**”, 17 October 2015.
- Organized **Forestry and Allied Specific Topics for Innovation and R&D Initiatives (FAST-2019)**, 21–23 November 2019.
- Organized seminar on “**Green Gold Bamboo – Industrially Exploitable Forest Resources**”, 18 September 2019.
- Organized **FAST-2018**, 27–28 November 2018.
- Organized **FAST-2017**, 17–18 February 2017.
- Organized seminar on “**Modern Trends in Applied Plant Biology**”, 3 December 2016.
- Organized National Seminar on “**Green Revolution for Sustainable Development**”, 20 February 2015.
- Participated in NAAC-sponsored National Seminar organized by IQAC, S.G.R.R. (PG) College, Dehradun.
- Participated in seminars and scientific programmes on biodiversity, forestry, environmental science and sustainable development.

SESSION CHAIR / RESOURCE PERSON / SCIENTIFIC COORDINATION

- Chaired sessions during the **19th Uttarakhand State Science and Technology Congress 2023–24**, held at Doon University, Dehradun.
- Chaired sessions during the **17th Uttarakhand State Science and Technology Congress 2022–23** at Uttarakhand State Council for Science and Technology, Vigyan Dham, Dehradun.
- Participated as a coordinator/member of the organizing committee in the **15th and 16th Uttarakhand State Science and Technology Congress**.
- Chaired sessions during the **14th Uttarakhand State Science and Technology Congress 2019–20**.
- Participated as a member of the coordination committee in the **13th Uttarakhand State Science and Technology Congress 2018–19**.

- Chaired sessions during the **12th Uttarakhand State Science and Technology Congress 2017–18**.
- Invited as a guest participant at the **11th Uttarakhand State Science and Technology Congress 2016–17**.
- Participated in the **10th Uttarakhand State Science and Technology Congress 2015–16** as a member of the coordination committee.
- Participated in the **8th Uttarakhand State Science and Technology Congress 2013–14**.
- Participated in the **3rd Uttarakhand State Science and Technology Congress 2008** at IIT Roorkee and presented a research paper in Environmental & Forestry Science.

MEDIA & OUTREACH

Akashvani Dehradun – Krishi Jagat

Delivered a talk on “**Krishi Aadharit Vaniki (Agroforestry)**” on Akashvani Dehradun’s programme *Krishi Jagat*, highlighting the role of agroforestry in sustainable agriculture, livelihood enhancement and environmental conservation in Uttarakhand.

TRAINING PROGRAMMES ATTENDED

1. **Four-Week Faculty Induction Programme**, Centre for Professional Development in Higher Education, UGC, Malaviya Mission Teacher Training Centre, University of Delhi, 18 June–15 July 2025.
2. **One-Week Faculty Development Programme on “Open Source Tools for Teaching and Research”**, Teaching Learning Centre, Ramanujan College, University of Delhi, 22–28 May 2023. **Grade: B+**
3. **Faculty Development Programme on “Use of ICT in Education and Research Methodology”**, 11–17 June 2018, organized by Dolphin (PG) Institute of Biomedical & Natural Sciences in collaboration with Teaching Learning Centre, Ramanujan College, University of Delhi.
4. **21-Day Training Programme on “Microbial Interactions in Soil”**, Department of Microbiology, Tamil Nadu Agricultural University, Coimbatore, 1–21 February 2000.
5. **Three-Month Training Programme in “Introductory Statistics and Computer-Based Statistical Analysis”**, ICFRE, Dehradun, through Winrock International Institute for Agricultural Development, February–April 1997.
6. Participated in an international seminar on **Advances in Wood Science for Natural Resource Sustainability**, Forest Research Institute, Dehradun, 25 March 2022.
7. Participated in a three-day **Computer Awareness Programme**, Hilltrone CALC, Dehradun.

TRAINING PROGRAMMES ORGANIZED

- Organized a training programme on “**Carpentry and Bamboo Craft**” in collaboration with the Bamboo and State Cooperative Federation, Dehradun, 15 September–12 October 2015.

AWARDS & RECOGNITION

- **Best Consistency Award**, Uttaranchal College of Biomedical Sciences and Hospital, Dehradun, 2015–2016.
- **Best Researcher Award – 2023**, Dr. S.N.N. Government Degree College, Vedikhal, Pauri Garhwal, in collaboration with Uttarakhand State Council for Science and Technology, Dehradun.

ADDITIONAL ACADEMIC & PROFESSIONAL ACTIVITIES

- Prepared project report entitled “**Multi-location Trial of Promising Clones of *Gmelina arborea* Roxb.**”, Silviculture Division, Forest Research Institute.
- Organized **Wildlife Week 2017** as a member of the organizing committee, Department of Forestry, Dolphin (PG) Institute of Biomedical & Natural Sciences.
- Participated in **Himalayan Day Rally** with students.
- Participated in eco-development camps sponsored by the Department of Environment, Government of Uttar Pradesh.
- Participated in NSS adult education programmes.
- Participated in cultural programmes at HNB Garhwal University.
- Participated in workshops and scientific programmes organized by Uttarakhand State Council for Science and Technology and other academic institutions.

AREAS OF RESEARCH INTEREST

- Silviculture and Agroforestry
- Climate-Smart Agroforestry
- Sustainable Agriculture and Forestry
- Nursery Technology and Plant Propagation
- Plant Physiology
- Soil Biology and Fertility
- Forest Ecology and Biodiversity Conservation
- Forest Fire Management
- Non-Timber Forest Products
- Medicinal and Multipurpose Plants
- Rural Livelihoods and Community-Based Forestry
- Agro-waste Utilization and Bioenergy
- Sustainable Natural Resource Management

PERSONAL DETAILS

Date of Birth:	13	August	1974
Marital Status:	Married		
Husband's Name:	Mr. Naresh Chamoli		
Mailing Address:			
Flat No.	414,	C	Block,
Shimla	Bypass,		G.M.S.
Opposite	St.		Jude's
Dehradun, Uttarakhand.			NCR
			Address:
			Residency,
			Road,
			School,

DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

Place: Dehradun
Date: _____

Dr. (Mrs.) Rashmi T. Chamoli

This version is much stronger for **faculty recruitment, Associate Professor applications, academic accreditation, research proposals, and university records**. I have also consolidated the repeated sections in the original CV, particularly the repeated conference, training and activity entries.

