

## Dr Praveen Kumar

Assistant Professor

Specialization: Forestry (Silviculture, Forest Ecology and Management)

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## On-going Research Projects

- Development of fodder bank (silvipastoral model) for sustainable livelihood opportunities in the community land of Kotla-Panjola Panchayat in District Sirmour of Himachal Pradesh-India funded by SCSP Scheme, Department of Science & Technology (DST), Govt. of India (Principal Investigator).
- Pine needle briquetting as an activity for forest fire management vis-à-vis, environment conservation and natural resource management in Himachal Pradesh funded by World Bank Mission for HP-IDP project (Co-Principal Investigator).

## Important Research Publications

- Shekhar S, **Kumar P\***, Dogra R, Devi M and Poonam. 2026. Influence of altitude gradient and overstorey composition on soil nutrient availability in the temperate Himalayan region. *Discover Forests* 2:28. <https://doi.org/10.1007/s44415-026-00071-2>.
- Pooja, Prakash P, **Kumar P\***, Bishist R, Kumar P, Shilpa, Singh R and Bhatia AK. 2025. Impact of altitudinal gradients on composition, biomass and soil nutrients of *Cedrus deodara* forests in the Northwestern Himalaya. *Trees, Forests and People* 21:100937. <https://doi.org/10.1016/j.tfp.2025.100937>.
- Thakur G, **Kumar P\***, Bhardwaj DR and Prakash P. 2024. Dynamics of aboveground vegetation biomass and carbon stocks along the altitudinal gradients and overstorey composition types in the temperate Himalayan region. *Trees, Forests and People* 16:100553. <https://doi.org/10.1016/j.tfp.2024.100553>.
- Sangry S, **Kumar P\***, Bhardwaj DR, Dogra KS and Poonam. 2024. Abundance, diversity and composition of understory plants along the altitudinal gradient and dominant overstorey composition types in the temperate Himalayan region. *Frontiers in Forests and Global Change* 7:1420855. <https://doi.org/10.3389/ffgc.2024.1420855>.
- Ma Z, Chen HYH, **Kumar P\*** and Gao B. 2019. Species mixture increases production partitioning to belowground in a natural boreal forest. *Forest Ecology and Management* 432:667-674. (<https://doi.org/10.1016/j.foreco.2018.10.014>).

- Xiao W, Chen HYH, **Kumar P\***, Chen C and Quan Q. 2019. Multiple interactions between tree composition and diversity and microbial diversity underly litter decomposition. *Geoderma* **341**:161-171. (<https://doi.org/10.1016/j.geoderma.2019.01.045>).
- **Kumar P\***, Chen HYH, Searle EB and Shahi C. 2018. Dynamics of understorey biomass, production and turnover associated with long-term overstorey succession in boreal forest of Canada. *Forest Ecology and Management* **427**:152–161. <https://doi.org/10.1016/j.foreco.2018.05.066>.
- Gao B, Taylor AR., Searle EB, **Kumar P\***, Ma Z, Hume A and Chen HYH. 2018. Carbon storage declines in old boreal forests irrespective of succession pathway. *Ecosystems* **21**:1168-1182. (<https://doi.org/10.1007/s10021-017-0210-4>).
- **Kumar P\***, Chen HYH, Thomas SC and Shahi C. 2017. Linking resource availability and heterogeneity to understorey species diversity through succession in boreal forest of Canada. *Journal of Ecology* **106**:1266-1276. (<https://doi.org/10.1111/1365-2745.12861>).
- **Kumar P\***, Chen HYH, Thomas SC and Shahi C. 2017. Effects of coarse woody debris on plant and lichen species composition in boreal forests. *Journal of Vegetation Science* **28** (2): 389-400. (<https://doi.org/10.1111/jvs.12485>).

### **Awards & Recognitions:**

- **AIM (Appreciation in Motion) Award** by Ministry of Natural Resources and Forestry (MNRF) Ontario – Govt. of Canada, 2019.
- **Postdoctoral Fellowship**, Faculty of Natural Resources Management, Lakehead University, Thunder Bay, Ontario-Canada, Jan 2018- July 2018.
- **Graduate Assistantship Award**, Faculty of Natural Resources Management Lakehead University, Thunder Bay, Ontario, Canada, 2014- 2017.
- **Faculty Research Award for Ph.D. Forest Sciences**, Faculty of Natural Resources Management, Lakehead University, Thunder Bay, Ontario, Canada, 2014-2017.
- **International Student Research Award for Ph.D. Forest Sciences**, Faculty of Natural Resources Management Lakehead University, Thunder Bay, Ontario, Canada, 2014- 2017.
- **Natural Resources Management International Award**, Faculty of Natural Resources Management, Lakehead University, Thunder Bay, ON, Canada, 2014- 2015.
- **Merit scholarship for M.Sc. Forestry (Watershed Management)**, Dr Y S Parmar University of Horticulture and Forestry, Nauni- Solan, HP–India, 2011-2013.