

Dr Praveen Kumar

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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 Sirmaur of Himachal Pradesh-India funded by Department of Science and Technology (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 HP-IDP, State Forest Department (Co-PI).

Important Research Publications

- Thakur, G., **Kumar, P**, Bhardwaj, D. R., Prakash, P., and Kanwar, P. (2024). Dynamics of aboveground vegetation biomass and carbon stocks along the altitudinal gradients and overstory composition types in the temperate Himalayan region. *Trees For. People.* 100553. <https://doi.org/10.1016/j.tfp.2024.100553>.
- Sangry S, **Kumar P**, Bhardwaj D R, Dogra K S and Poonam (2024) Abundance, diversity and composition of understory plants along the altitudinal gradient and dominant overstory composition types in the temperate Himalayan region. *Front. For. Glob. Change* 7:1420855. <https://doi.org/10.3389/ffgc.2024.1420855>.
- Su X, Li S, Wan X, Huang Z, Liu B, Fu S, **Kumar P** and Chen HYH. 2020. Understory vegetation dynamics of Chinese fir plantations and natural secondary forests in subtropical China. *Forest Ecology and Management* 483(10):118750. <https://doi.org/10.1016/j.foreco.2020.118750>.
- 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.

(<https://doi.org/10.1016/j.foreco.2018.05.066>).

- **Kumar P**, Chen HYH, Thomas SC and Shahi C. 2018. Epixylic vegetation abundance, diversity and composition vary with coarse woody debris decay class and substrate species in boreal forest. *Canadian Journal of Forest Research* **48**:1-13. (<https://doi.org/10.1139/cjfr-2017-0283>).
- 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>).
- Chen S, Shahi C, Chen HYH, **Kumar P**, Ma Z and McLaren B. 2018. Trade-offs and synergies between economic gains and plant diversity across a range of management alternatives in boreal forests. *Ecological Economics* **151**:162-172. (<https://doi.org/10.1016/j.ecolecon.2018.05.014>).
- **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 (MNR) 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**, Dr Y S Parmar University of Horticulture and Forestry, Nauni- Solan, HP–India, 2011-2013.