

## Dr Praveen Kumar

Assistant Professor

Specialization: Forestry (Silviculture, Forest Ecology and Management)

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## On-going Research Projects

- Techniques for protecting infrastructure, forest plantation and utilization of pine needles funded by Govt. of Himachal Pradesh under Research and Development Fund Scheme (Principal Investigator)

## Important Research Publications

- 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>).

- **Kumar P\***, Raina JN, Devi M and Garima. 2017. Effect of different land uses on soil health in Ga3a micro-watershed of Solan district in Himachal Pradesh. *Journal of Pharmacognosy and Phytochemistry* **6** (3): 378-380.

## **Awards & Recognitions:**

- **AIM (Appreciation in Motion) Award** by Ministry of Natural Resources and Forestry (MNRFF) 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.