Abhishek **Kumar**

Senior Research Fellow

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Education

Panjab University — *Chandigarh, India*

Doctor of Philosophy (Botany) — *2017-Present*

Panjab University — *Chandigarh, India*

Master of Science (Botany) — *2015-2017*

Arya PG College — *Panipat, India*

Bachelor of Science (Botany, Chemistry, Zoology) — *2012-2015*

Selected Publications

Please check my *website* for a complete list of *publications*.

Journal articles

1. Singh, A. N., & Kumar, A. (2022). Comparative soil restoration potential of exotic and native woody plantations on coal mine spoil in a dry tropical environment of India: A case study. *Land Degradation & Development*, *33*(12), 1971–1984. https://doi.org/10.1002/ldr.4286
2. Kumar, P., Kumar, A., Patil, M., Sharma, N. K., & Singh, A. N. (2022). Herbaceous vegetation under planted woody species on coal mine spoil acts as a source of organic matter. *Acta Oecologica*, *114*, 103809. https://doi.org/10.1016/j.actao.2021.103809
3. Kumar, A., Patil, M., Kumar, P., Kumar, M., & Singh, A. N. (2022). Plant ecology in Indian Siwalik range: A systematic map and its bibliometric analysis. *Tropical Ecology*. https://doi.org/10.1007/s42965-022-00229-x
4. Singh, A. N., & Kumar, A. (2022). Ecological performances of exotic and native woody species on coal mine spoil in Indian dry tropical region. *Ecological Engineering*, *174*, 106470. https://doi.org/10.1016/j.ecoleng.2021.106470
5. Patil, M., Kumar, A., Kumar, P., Cheema, N. K., Kaur, R., Bhatti, R., & Singh, A. N. (2020). Comparative litter decomposability traits of selected native and exotic woody species from an urban environment of north-western siwalik region, India. *Scientific Reports*, *10*(1), 7888. https://doi.org/10.1038/s41598-020-64576-2

Book chapters

1. Kumar, A., Patil, M., Kumar, P., & Singh, A. N. (2021). Phosphorus and litter decomposability traits in tropical forest ecosystems under changing environment: A synthesis. In R. K. Chaturvedi, R. Singh, & R. Bhadouria (Eds.), *Tropical dry forests: Emerging features and ecological perspectives* (pp. 311–336). Nova Science Publishers, Inc.
2. Kumar, A., Yadav, R., Patil, M., Kumar, P., Zhang, L., Kaur, A., Sharma, S., Hussain, S., Tokas, D., & Singh, A. N. (2020). Sustainable management of national parks and protected areas for conserving biodiversity in India. In *Advances in forest management under global change*. IntechOpen. https://doi.org/10.5772/intechopen.92435

Awards and Distinctions

Young Scientist Award

Punjab Academy of Sciences, Patiala — *2022*

Best Poster Award

National Conference on Climate Change, CSIR-NBRI, Lucknow *2020*

Junior Research Fellowship

University Grants Commission, New Delhi *2017*

Research Interests

- **Ecophysiology** Variation of functional traits with environmental variables (elevation, temperature, rainfall and atmospheric pressure)
- **Population Ecology** Population dynamics of mountain trees (*Pinus*, *Quercus* and *Rhododendron*); species distribution modelling
- **Community Ecology** Diversity and distribution of plants along elevation and their controlling factors
- **Ecosystem Ecology** Nutrient cycling in tropical forests; role of phosphorus and mycorrhizal fungi in litter decomposition
- **Restoration Ecology** Ecological restoration of coal mine spoils

Skills and Qualifications

Please check my *website* for a comprehensive list of *accomplishments* and certificates

- R
- Microsoft Office (Excel, PowerPoint, Word)
- Biostatistics
- Data analysis and visualisation
- Systematic reviews and meta-analysis
- Scientific and technical writing

Professional Memberships

- Student Member (#67527876), *International Association for Vegetation Science*
- Life Member (#L-1599), *Punjab Academy of Sciences, Patiala*

References

- **Dr. Anand Narain Singh**, Panjab University, Chandigarh, dranand1212@gmail.com
- **Prof. Amrik Singh Ahluwalia**, Eternal University, Sirmaur, amrik.s511@gmail.com
- **Dr. Balkar Singh**, Arya PG College, Panipat, balkararya@gmail.com