



School: School of Natural Resources

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Name: Dr. Chowlani Manpoong

Designation: Assistant Professor

Qualifications: M.Sc., ASRB-NET, Ph.D.

Area of Interest/Specialization: Forest Ecology, Soil Ecology and Rhizosphere Dynamics

Experiences:

1. Assistant Professor, Department of Forestry, Wildlife and Environmental Sciences, GuruGhasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 09th September, 2022 to Present.
2. Assistant Professor, Department of Crop Production, Faculty of Agricultural Sciences, Arunachal University of Studies, Namsai, Arunachal Pradesh, India, From 16th February, 2017 to 07th September, 2022.

Award and Honors:

1. Young Scientist Award, International Scientist Awards on Engineering, Science and Medicine, held on 26 & 27 February 2021, Hyderabad, India, Organized by VDGGOOD Professional Association.
2. Budding Teacher Award (2017-2018), Arunachal University of Studies, Namsai, Arunachal Pradesh, India
3. UGC National Fellowship for Higher Education (NFHE) for the year 2015-16 (F1-17.1/2015-16/NFST-2015-17-ST-ARU-663) to pursue Ph.D. Degree.

Research Projects: 01

Sl. No.	Project Title	Funding Agency	Duration	Status	Total Budget
1.	Characterizing the rhizosphere soil and fine root distribution pattern of <i>Tectona grandis</i>	Research Seed Money Grant, GGV, Bilaspur (C.G.)	1 Year	Ongoing (April 2023-	1 lakh

	stands in tropical soils of Chhattisgarh				
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International Collaboration/Consultancy: Nil

List of Publications:

• **Journals:**

1. Sharma, A., Pandey, H., **Manpoong, C.**, Vashishth, A., Singh, D., & Bang, N.T.H. (2023). Biometric analysis, Biosynthetic pathway and Multipurpose uses of Buckwheat Local Varieties in Namsai District of Eastern Himalayas in India. *Trends in Food Science & Technology*, 136: 251–267 (SCI indexed, IF: 16.002)
2. Bam, M. & **Manpoong, C.** (2023). Physico-chemical properties of Lohit River in the Eastern Himalayan region. *Ecology, Environment and Conservation*, 29: S135-S139 (Web of Science indexed)
3. Bam, M. & **Manpoong, C.** (2022). Plant community structure in the Parshuram Kund area of Kamlang Wildlife Sanctuary, Arunachal Pradesh. *Environment and Ecology* 40(4B): 2514-252. (Web of Science indexed)
4. Sharma, A., **Manpoong, C.**, Devadas, V.S., Kartha, B.D., Pandey, H., & Wangsu, M. (2022). Crop Hydroponics, Phyto-hydroponics, Crop Production, and Factors Affecting Soilless Culture. *ACS Agricultural Science & Technology*, 2, 6, 1134–1150. (SCI indexed)
5. Sharma, A., Devadas, V.S., Nair, P.P., **Manpoong, C.**, & Kartha, B.D. (2022). Biodegradation of polymers with microbial agents. *Current Green Chemistry*, 9, 3-13. (SCI indexed)
6. Sharma, A., **Manpoong, C.**, Gohain, A., Pandey, H., Padu, G. & Aku, H., (2022). Tissue-cultured regeneration and ecological values in major bamboo species. *Journal of Ecology and Environment*, 46: 21. (Web of Science indexed, Scopus indexed)
7. Singh, M.S. & **Manpoong, C.** (2022). Response of maize (*Zea mays*) to different nitrogen doses under the mild tropical plain agroclimatic zone of North-East India. *Crop Research*, 57(5&6): 319-324. (Web of Science indexed)
8. Yarang, M., **Manpoong, C.**, Sharma, A., Devadas, V.S., & Raghavan, M. (2022). Effect of bio-formulations on growth and yield of Pea (*Pisum sativum* L.). *Ecology, Environment and Conservation*, 28(3): 289-293. (Web of Science indexed)
9. Sharma, A., **Manpoong, C.**, Sharma, H., Pandey, H., Soni, G., Sharma, S., Kumari, N., & Raghavan, M. (2022). Removal of heavy metals and agrochemicals residues through plants. *Asian Journal of Microbiology, Biotechnology and Environmental Science*, 24 (1): 20-24.
10. Yao, A., Sharma, A., **Manpoong, C.**, Devadas, V.S., & Monlai, S. (2022). Performance of selected traditional rice varieties under Namsai conditions of eastern Himalayas. *Crop Research*, 57(4): 223-229. (Web of Science indexed)
11. Sangma, R.R., **Manpoong, C.**, Sharma, A., Devadas, V.S., Singh, D., & Pandey, H.

- (2022). Performance of black rice (*Oryza sativa*) varieties grown in Namsai district of Arunachal Pradesh, India. *Research on Crops*, 23(1): 11-14. (Scopus indexed)
12. Sunya, H., Sharma, A., **Manpoong, C.**, Devadas, V.S., Pandey, H., & Singh D. (2022). Evaluation of improved varieties of rice (*Oryza sativa* L.) under environmental condition of Namsai, Arunachal Pradesh. *Ecology, Environment and Conservation*, 28 (2): 907-911. (Web of Science indexed)
 13. Sharma, A., Devadas, V.S., **Manpoong, C.**, Soni, G., & Kartha, B.D. (2022). Utilization of CRISPR CAS 9 system in Crop Improvements. *Plant Cell Biotechnology and Molecular Biology*, 23(5&6): 96-114. (UGC care listed)
 14. Sharma, A., **Manpoong, C.**, Sharma, H., Pandey, H., Soni, G., Sharma, S., Kumari, N., & Raghavan, M. (2022). Impacts of Fertilizer and Pesticide Consumptions in Natural Resources of India. *Ecology, Environment and Conservation*, 28(3): 242-246. (Web of Science indexed)
 15. Ovung, E.Y., Kumar, K.S., **Manpoong, C.**, Tripathi, S.K., Khanduri, V.P., & Singh, S.K. (2022). Influence of land use pattern on soil quality in a steeply sloped tropical mountainous region, India. *Archives of Agronomy and Soil Science*, 68: 852-872. (SCI indexed, IF: 2.24)
 16. **Manpoong, C.**, Wapongnungsang, & Tripathi, S.K. (2021). Soil carbon stock in different land-use systems in the hilly terrain of Mizoram, Northeast India. *Journal of Applied and Natural Science*, 13(2), 723-728. (Scopus indexed)
 17. **Manpoong, C.**, De Mandal, S., Bangaruswamy, D.K., Perumal, R.C., Benny, J., Beena, P.S., Ghosh, A., Kumar, N.S., & Tripathi, S.K. (2020). Linking rhizosphere soil biochemical and microbial community characteristics across different land use systems in mountainous region in Northeast India. *Meta Gene (Human Gene)*, 23: 100625. (SCI indexed)
 18. **Manpoong, C.**, Hauchhum, R., & Tripathi, S.K. (2020). Soil fertility and root carbon exudation in *Tephrosia candida* (Roxb.) DC hedgerows under Sloping Agricultural Land Technology in Mizoram, northeast India. *Journal of Tropical Agriculture*, 58 (1): 12-21. (Scopus indexed, Web of Science indexed)
 19. **Manpoong, C.**, & Tripathi, S.K. (2019). Soil properties under different land use system of Mizoram, North East India. *Journal of Applied and Natural Science*, 11(1): 121 - 125. (Scopus indexed)
 20. Wapongnungsang, **Manpoong, C.**, & Tripathi, S. K. (2018). Changes in Soil Fertility and Rice Productivity in Three Consecutive Years Cropping under Different Fallow Phases Following Shifting Cultivation. *International Journal of Plant & Soil Science*, 25(6): 1- 10. (UGC care listed)
- **Conference Proceedings:**
 - **Manpoong C.**, Vasanthakumar K., & Jha R. (2020). Proceedings of the National Conference on Natural Resources Management and Sustainable Agriculture with reference to North-East India. ISBN 978-81-944507-0-2. Eduworld Publication, New Delhi.

Recent Books, Book Chapters/Monographs etc.

- **Books:**

- Sharma A., Monlai S., **Manpoong C.**, Raghavan M, Kumari N., & Shi Z. (2020). *Theory and Practices of Plant Tissue Culture*. ISBN 9789390309146 Jaya Publishing House.

- **Book Chapters:**

- **Manpoong, C.**, & Tripathi, S.K. (**In Press**). Innovative Farming Practices and Bio- resource Utilization Patterns by Tribals of Arunachal Pradesh, North east India. *Farmer Innovations and Best Practices by Shifting Cultivators in Asia-Pacific*. Eds. by Malcolm Cairns. CABI Publishing, (Wallingford, United Kingdom).
- Sharma, A., **Manpoong, C.**, Pandey, H., Gupta, C.K., Baja, Y., Singh, M.S. & Mounklang, C.C. (2023). A Comprehensive Update on Traditional Agricultural Knowledge of Farmers in India. In: Kumar, A., Singh, P., Singh, S., Singh, B. (eds) *Wild Food Plants for Zero Hunger and Resilient Agriculture. Plant Life and Environment Dynamics*. ISBN 978-981-19-6502-9, 978-981-19-6501-2. pp 331–386. Springer, Singapore. https://doi.org/10.1007/978-981-19-6502-9_14
- Tamuli, B., Boruah, R.R., **Manpoong, C.** & Mounklang, C.C., (2022). Soil pollution and its Phytoremediation. Eds. by Lokare P., Keshamma E., Kumar S. pp 173- 189. ISBN: 978-93-5607-025-7. *Eco Survival. Book Saga Publications*,
- Gohain, A, **Manpoong, C.**, Linggi, B, Saikia, R, and De Mandal, S. (2020). Microbial endophytes of plants: diversity, benefits, and their interaction with host. In: *Recent Advancements in Microbial Diversity*. 19-36. ISBN: 978-0-12-821265-3. Eds. by DeMandal S and Bhatt P. Academic Press (An imprint of Elsevier, Scopus indexed)
- Gohain, A., **Manpoong, C.**, Saikia, R., and De Mandal, S. (2020). Actinobacteria: diversity and biotechnological applications. In: *Recent Advancements in Microbial Diversity*. pp 217-232. ISBN: 978-0-12-821265-3. Eds. by De Mandal S and Bhatt P. Academic Press (An imprint of Elsevier, Scopus indexed)
- Hegde, N. & **Manpoong, C.**, (2017). Floral Biodiversity in Buffer Zone of Dampa Tiger Reserve and Impact of Developmental Activities. In: *Natural Resource Management for Sustainable Development and Rural Livelihoods*. Vol.2: 725-739; ISBN 8170195841. Eds. by V P Sati and K C Lalmalsawmzauva. Today and Tomorrow's Publishers, New Delhi.
- Monlai, S., Manpoong, N.S. & **Manpoong, C.** (2017). Sustainable Utility Index Value of Wild Edible Plants amongst the Tai Khampti Tribe of Arunachal Pradesh. In: *Natural Resource Management for Sustainable Development and Rural Livelihoods*. Vol.2: 725-739; ISBN 8170195841. Eds. by V P Sati and K C Lalmalsawmzauva. Today and Tomorrow's Publishers, New Delhi.

- **Patent (Published/Granted):** 01 (Published)
 - Sustainable Greenhouse for Crops and Drying of Herbal Medicinal Plants Speed Breeding, Application Number: 202331016852, Publication Number: 12/2023, Date: 23/3/2023

Research Supervision: 01 Ph.D. Scholar (Ongoing)

Administrative Responsibilities:

- Member, Institution Innovation Council, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 02/06/2023 to Present
- Member, Plantation Committee, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 3/5/2023 to Present
- Assistant Proctor, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 21/04/2023 to Present
- SSR Criteria-4 Co-Coordinator, IQAC, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 24/03/2023 to Present
- SSR Criteria-2 Coordinator, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 17/04/2023 to Present
- Member of Departmental Staff Council, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur (C.G.), From 17/02/2023 to Present

Additional Information:

- **Abroad Visit:**
 - Participated and Presented research paper on ‘Agroforestry systems in Arunachal Pradesh, North-East India practiced by indigenous people’ in 4th World Agroforestry Congress held during 21-23 May 2019, in Montpellier, France.
 - Attended and presented a talk on ‘Connection of Thai and Tai Khamti: Through Traditional Festivals’ during People-to-People Exchange Meet in Northeast India Festival held on 30-31 July 2022, in Bangkok, Thailand.
- **Conferences/Seminars/Workshop Organized**
 - Co-Organizing secretary of National Seminar cum Workshop on Managing Soil Carbon or Monetizing Carbon Credits to Benefit Indian Farmers organized by Department of Forestry, Wildlife and Environmental Sciences on, 5-6 December 2022, held in Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
 - Convener of National Conference on Natural Resources Management and Sustainable Agriculture with reference to NE India held in Arunachal University of Studies, Namsai (28 & 29 January, 2020).
 - Organizing Secretary of One Day National Workshop on Climate Change Vulnerability Assessment held in Arunachal University of Studies, Namsai on 18th January 2022.

- Organizing member of the Workshop on Developing Cadre of Para-hydrogeologist for Springshed Management organized by Rain Forest Research Institute, Jorhat, Assam (ICFRE) on 7th & 8th September, 2021 at Arunachal University of Studies, Namsai, Arunachal Pradesh.

- **Conferences and Seminars attended**

- 4th World Congress on Agroforestry, held in Montpellier, France (20-22 May 2019).
- International Conference on Innovative and current advances in agriculture and allied sciences (icaaas-2022) organized by Society for Scientific Development in Agriculture & Technology, Meerut (U.P.) India in Collaboration with CSAUAT, HPU, SKRAU, BAU, HFRI, Astha Foundation (12th – 14th June 2022)
- International Conference on Recent Advances for Managing Sustainable Soil Health and Crop Production organized by GKV Society, Agra, India (18th-20th Feb 2022)
- International Conference on Biotechnological Initiatives for Climate Resilient Agriculture held in Dr. Ragendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar, India (7th January – 9th January 2022)
- National Conference on Microbes in Health, Agriculture & Environment, held in Mizoram University, Aizawl, Mizoram, India (20-21 June 2019).
- International Conference on Sustainable Agriculture, Biodiversity and Climate Change held in Assam Agriculture University, Jorhat, Assam, India (13th December-16th December, 2018)
- International Conference on Natural Resources Management for Sustainable Development and Rural Livelihoods held in Mizoram University, Aizawl, India (26th Oct -28th Oct, 2017).
- XIX Commonwealth Forestry Conference held in Forest Research Institute (FRI), Dehradun, Uttarakhand, India (3rd April - 7th April, 2017).

- **Resource Person/Invited Talk/Trainer**

- Invited talk during People to People Exchange Meet, North east India Festival 2022 held in Central World, Bangkok, Thailand on 30-31 July 2022.
- Resource Person (Invited talk) in two days Online Training on "Development of Agroforestry Practices for Livelihood Generation" organized by Forest Research Institute (Indian Council of Forestry Research and Education) Dehradun (Uttarakhand), India (sponsored by MoEF&CC, Govt. of India) held during 11th-12th October 2021.
- Resource person for Propagation & Management of Bamboo (Green Skill Development Programme) supported by MoEF & CC, Govt. of India held from 5th December 2020 – 15th January 2021 at Arunachal University of Studies, Namsai, Arunachal Pradesh
- Resource Person in one day Seminar on Climate Change awareness in Eastern Arunachal Pradesh jointly organized by Department of Environment Forests & Climate Change, Government of Arunachal Pradesh and Arunachal University of Studies sponsored by NABARD held on 28th March 2022
- Resource Person in one day National Workshop on Climate Change Vulnerability Assessment organized by IQAC, Arunachal University of Studies, held on 18th January 2022.

- Resource Person (Invited talk) in one day Workshop cum Training Program for stakeholders and farmers on IoT Based Agriculture Practice under Agriculture Demand Side Management (AgDSM) program in Arunachal Pradesh (sponsored by Ministry of Energy, Govt. of India) held on 17th November, 2021 at Namsai, Arunachal Pradesh.
- Trainer in Inspire Internship Science Camp sponsored by DST, Govt. of India organized by Arunachal University of Studies, Namsai, Arunachal Pradesh held during 1st Feb to 5th Feb 2018.
- Resource person in 'Training and Awareness programme on Protection of Plant Varieties and Farmers Rights organized by Department of Forestry & Department of Horticulture, Aromatic & Medicinal Plants, MZU (Sponsored by PPVFRA, Ministry of Agriculture & Farmers Welfare, Govt. of India & Mizoram University) held during 28th -29th March, 2017.
- **Memberships**
 - Life member, Indian Society of Agroforestry, Jhansi, India.
 - Editorial Board Member, *Advances in Applied Sciences*, ISSN Print: 2575-2065; ISSN Online: 2575-1514 from February 17, 2022 to present, <https://www.sciencepg.com/j/aas>.
 - Editorial Board Member, *Research in Biotechnology and Environmental Science*, <https://rbes.rovedar.com/index.php/RBES/EditorialBoard> from April 2023 to present
- **Journals Reviewed**
 - Acted reviewer for *Communications in Soil Science and Plant Analysis*, Taylor and Francis Publication, SCI indexed (IF. 1.58).
 - Acted reviewer for *Cogent Food & Agriculture*, Taylor and Francis Publication, SCI indexed (IF. 2.28).
 - Acted reviewer for *Indian Journal of Agricultural Research* (NAAS-5.20 (2022), Web of Science indexed.
 - Acted reviewer for *Legume Research*, NAAS- 6.59 (2022), Web of Science indexed.
 - Acted reviewer for *Agricultural Reviews*, NAAS- 4.63 (2022).
 - Acted reviewer for *Agricultural Science Digest*, NAAS- 4.75 (2022)



Signature