

MUNA THAPA

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SUMMARY

B.Sc. Agriculture graduate (GPA 3.38/4.0) with research experience in crop growth and yield analysis, agrometeorological indices, and climate change adaptation strategies. Trained in the Decision Support System for Agrotechnology Transfer (DSSAT) crop simulation model through FAO and Tribhuvan University, with additional coursework in statistical computation (R Studio, SPSS) and quantitative agricultural research methods. Conducted field studies on rapeseed and potato, with findings published in a peer reviewed journal and presented at international climate change conferences. Skilled in experimental design, agroecological data collection, and scientific writing, with a strong interest in crop simulation modeling and carbon dynamics in agricultural systems.

EDUCATION

B.Sc. Agriculture

2019 to 2022

Far Western University, School of Agriculture, Tikapur, Kailali, Nepal. GPA: 3.38/4.0

RESEARCH AND PUBLICATIONS

- Thapa, M., Amgain, L. P., and Chaudhary, M. (2025). Growth, Productivity and Profitability of Different Cultivars of Potato (*Solanum tuberosum* L.) with and without Straw Mulch in Dadeldhura, Nepal. *Nepalese Horticulture*, 19(1), 1 to 11. <https://doi.org/10.3126/nh.v19i1.86415>
- Oral Presentation: Evaluation of major agrometeorological indices of rapeseed grown with climate change adaptation measures, World Congress on Climate Change and Its Effects (CCIE 2025), Kathmandu, Nepal.
- Research Mini Grant Recipient, Association of Nepalese Agricultural Professionals of Americas (NAPA), 2022, for research on agrometeorological indices of rapeseed under climate change adaptation measures in Western Terai, Nepal.
- Paper Presentation: Growth and yield performance of potato varieties with and without straw mulch, 1st Undergraduate Symposium on Research, Practices and Seminar, Far Western University, Nepal (2023).

RESEARCH EXPERIENCE

Research Assistant

Oct 2025 to May 2026

(Nepal Development Research Institute, Sanepa, Lalitpur)

- Conducted literature reviews and stakeholder mapping on large cardamom production, market demand, pricing, and value chain trends to inform project design and reporting.
- Developed KII checklists and data collection tools in KoboToolbox; led field surveys in Sankhuwasabha and qualitative market research across Nepal, following research ethics and data quality standards.
- Performed transcription, qualitative data analysis, data cleaning, and translation supporting outputs for Safe Migration and Food Safety and Nutrition in Nepal projects.
- Provided research and administrative support to the Livelihoods and Food Security team, including programme events and weekly meetings.

Agriculture Intern

Jan 2023 to Jul 2023

(Prime Minister Agriculture Modernization Project, PIU Dadeldhura)

- Investigated effects of seed tuber size, organic manure, and straw mulch on growth and yield of potato (*Solanum tuberosum* L., variety Desiree), and conducted varietal evaluation and morphological characterization of potato genotypes.
- Participated in identification and management of Citrus Greening Disease (HLB) in sweet orange orchards, including sample preparation for PCR testing.
- Investigated potato Powdery Scab management using biological and chemical treatments; trained farmers on plastic mulching and Integrated Pest Management practices.

RELEVANT TRAINING AND CERTIFICATIONS

- 3rd APEC Seminar on Digitalization & Innovation in Food Supply Chains – Academy of National Food and Strategic Reserves Administration, Hefei, China (July 2025)
- Green Grain Storage Technologies for Developing Countries – Ministry of Commerce & Henan University of Technology, China (July 2025)
- Decision Support System for Agrotechnology Transfer (DSSAT), FAO and Tribhuvan University (2025)
- Statistical Computation and Data Analysis Using R Studio, CARE Kathmandu (2023)
- Framework for Data Collection and Analysis, University of Maryland (Online)
- How to Write and Publish a Scientific Paper, Ecole Polytechnique (Online)
- Introduction to Calculus, University of Sydney (Online)
- Participatory Rural Appraisal (PRA) and Research Methodology, Far Western University, Nepal (2022)

SKILLS

- **Technical and Software:** R Studio, SPSS, DSSAT, ArcGIS, Microsoft Office, Canva
- **Research and Academic:** Experimental design, data analysis, scientific writing, proposal and report writing
- **Field and Laboratory:** Integrated Pest Management, disease diagnostics, crop measurement, greenhouse and post harvest management, plant propagation, pathogen isolation, microbial analysis

AWARDS AND SCHOLARSHIPS

- Merit Based Scholarship, full tuition for B.Sc. Agriculture as top ranked entrance examinee
- Research Mini Grant, Association of Nepalese Agricultural Professionals of Americas (NAPA), 2022
- National Blog Competition Winner, DELTA and YPARD Nepal (2019)

LEADERSHIP AND MEMBERSHIPS

- Local Director, IAAS Nepal, FOA Tikapur (2020 to 2021)
- Campus Director, Hult Prize On Campus Program, Far Western University (2021 to 2022)
- Chairperson, IAAS LC FOA Tikapur Local Congress (2022)
- Local Representative, Young Professionals for Agricultural Development (YPARD) Nepal (2020 to 2023)

REFERENCES

Lal Parsad Amgain (Ph.D.)

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