



# Deependra Dhakal

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## Education

### (MS; Plant Breeding and Genetics) Agriculture and Forestry University

AGRICULTURE AND FORESTRY CAMPUS, RAMPUR

- First Division

Chitwan

2016–2018

### (BS; Agriculture) Tribhuvan University

INSTITUTE OF AGRICULTURE AND ANIMAL SCIENCE

- First Division

Lamjung

2010–2015

### Higher Secondary Education Board

ORCHID SCIENCE COLLEGE

- First Division

Chitwan

2008–2010

### SLC Board

SMALL HEAVEN HIGHER SECONDARY BOARDING SCHOOL

- Distinction

Chitwan

2008

## Competencies

### \* Scripting and domain interests

- R – Graphical/functional programming and algorithmic development
- ImageJ and Python – Image and algorithmic analysis
- $\text{\LaTeX}$ – TikZ, literate programming
- DSSAT/aquacrop – Crop physiology studies and environment management decision
- Bash – General purpose scripting, file management, code version control and execution
- QGIS and GeoDa – Geographical data exploration/aggregation
- Julia – Dynamic programming and optimal experimental designing

## Training and Experience

### Agriculture and Forestry University

DEPARTMENT OF GENETICS AND PLANT BREEDING

- Assistant Professor

Rampur, Chitwan, Nepal

April 13 2022– Ongoing

### Ministry of Land Management, Agriculture and Cooperative

SEED LABORATORY, GANDAKI PROVINCE

- Crop Development Officer

Pokhara, Kaski, Nepal

April 21 2021– April 12, 2022

### Gokuleshwar Agriculture and Animal Science College

DEPARTMENT OF PLANT BREEDING AND GENETICS

- Assistant Professor

Baitadi, Nepal

March 29 2019–December 2020

### Unique Seed Company Pvt. Ltd.

CROP BREEDING AND RESEARCH DIVISION

- Crop Breeder

Dhangadhi, Kailali, Nepal

May 9, 2018–March 28, 2019

### National training workshop on 'Seed Quality and Productivity Enhancement Technologies in Lentil'; Organized by: CIMMYT and NGLRP/NARC

REPRESENTING UNIQUE SEED COMPANY PVT. LTD.

Nepalgunj, Nepal

February 17, 2019–February 18, 2019

**International training workshop on 'Hybrid Vegetable Seed Production and Marketing';  
Organized by: HRD/NARC, SEAN, CIMMYT and World Vegetable Center**

REPRESENTING UNIQUE SEED COMPANY PVT. LTD.

Dang, Nepal

February 13, 2019–February 15, 2019

**International training on "Hybrid Maize Seed Production and Marketing"; Organized by:  
CIMMYT**

REPRESENTING UNIQUE SEED COMPANY PVT. LTD.

Kathmandu, Nepal

October 1, 2018–October 3, 2018

**International training on "Statistical Data Analysis"; Organized by: CIMMYT**

REPRESENTING UNIQUE SEED COMPANY PVT. LTD.

Kathmandu, Nepal

September 29, 2018–September 30, 2018

**International training on 'Hybrid Maize Comprehensive Technologies'; Organized by:  
Yuan Longping High-Tech Agriculture Co. Ltd., Changsha, China and NMRP/NARC, Nepal**

REPRESENTING UNIQUE SEED COMPANY PVT. LTD.

Chitwan, Nepal

July 17, 2018–August 31, 2018

**Enhancing quality standards of raw milk: Validation of Good Manufacturing  
Practices(GMP) in the supply chain.**

FORWARD NEPAL

Tanahun, Nepal

November 2016–December 2016

• Field Research Associate

**Action Research for Cost Effective Agricultural Extension Services in 10 mid-hill districts  
of Nepal.**

NEPAL DEVELOPMENT RESEARCH INSTITUTE

Rukum, Nepal

March 2014–April 2014

• Enumerator

## Hobbies and personal projects

| Idea   | Specialization  |
|--|---|
| Mathematical graphics  | Coded flag (The Most Mathematical Flag - Numberphile <sup>1</sup> ) of Nepal using TikZ; Repository: <a href="https://github.com/DeependraD/flag-of-nepal">https://github.com/DeependraD/flag-of-nepal</a> .  |
| Study of non-linear systems (crop growth and economy of agricultural products) using dynamic programming | Distributed lag based enterprise appraisal parametrizing biological fruit growth in Coffee ( <a href="https://github.com/DeependraD/distributed-lag-enterprise-simulation">https://github.com/DeependraD/distributed-lag-enterprise-simulation</a> ); Price transmission study in Wheat ( <a href="https://github.com/DeependraD/macroeconomics_thesis">https://github.com/DeependraD/macroeconomics_thesis</a> ) |
| Blogging and web   | Maintain a personal website in open-source community hosted domain using Hugo ( <a href="https://github.com/DeependraD/dblog">https://github.com/DeependraD/dblog</a> )   |
| Colorimetry and image analysis   | Created an adaptation of Munsell Color system for visual rating of leaf color ( <a href="https://github.com/DeependraD/munsell_crop_adaptation">https://github.com/DeependraD/munsell_crop_adaptation</a> )   |

## Publications

1. Dhakal, D. (2024). *Preprint – gridded multi-crop suitability mapping using public domain soil and related thematic data*. <https://doi.org/10.31223/X5W69Z>
2. Bista, P., Thapa, S., Rawal, S., Dhakal, D., Joshi, D., et al. (2022). Agro-morphological characterization and estimation of genetic parameters of spring maize hybrids in the inner plains of far-west nepal. *International Journal of Agronomy*, 2022.
3. Kalauni, S., & Dhakal, D. (2020). Correlation and path coefficient analysis of seed yield and yield components of french bean (*phaseolus vulgaris* l.) Genotypes in sub-tropical region. *Turkish Journal of Agriculture-Food Science and Technology*, 8(9), 1928–1934. <https://doi.org/10.24925/turjaf.v8i9.1928-1934.3528>
4. Paudel, S., & Dhakal, D. (2020). Yield performance of oyster mushroom (*pleurotus ostreatus*) on different substrate. *Archives of Agriculture and Environmental Science*, 5(2), 190–195. <https://doi.org/10.26832/24566632.2020.0502016>
5. Deependra, D. (2018). *Post-anthesis leaf health as potential determinant of yield in early evaluation trial of wheat genotypes* [MS Thesis]. Agriculture and Forestry University.
6. Dhakal, D., & Subedi, R. (2015). Study of agro-morphological descriptors of common bean (*phaseolus vulgaris* l.) genotypes. In B. D. Regmi (Ed.), *Proceedings of undergraduate practicum assessment volume 2* (pp. 23–26). IAAS.
7. Regmi, B. D. (Ed.). (2015). *Proceedings of undergraduate practicum assessment volume 2*. IAAS.

## Advisor and Referee

**Madhav Prasad Pandey, PhD**

- Professor
- Department of Genetics and Plant Breeding
- Agriculture and Forestry University
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**Lal Prasad Amgain, PhD**

- Professor
- Department of Agronomy
- Tribhuvan University
- +977-9851219516
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**Mahendra Tripathi, PhD**

- Scientist
- Agronomy/Plant Breeding and Genetics
- National Maize Research Program (NMRP), Rampur, Nepal
- +977-9846871041
- mptripathi@gmail.com

**Declaration**

I hereby declare that, all the information stated above is true and genuine in my belief. I can dispense any and/or all of the mentioned works in verified form whenever demanded.