

Dr. AASHISH DHAKAL

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PROFILE

Date of Birth: 1st July, 1988

Son of: Binod Kanta Dhakal and Madhu Kala Dhakal

Gender: Male

Nationality: Nepalese

EDUCATION BACKGROUND

LEVEL	DIVISION	SCORE	PASSED YEAR	INSTITUTION
Bachelor in Veterinary Science and Animal Husbandry	Distinction	80.8%	2013	Institute of Agriculture and Animal Sciences, Kathmandu, Nepal
Master of Science in Animal Science (Animal Breeding)	First	82.0%	2017	Institute of Agriculture and Animal Sciences, Kathmandu, Nepal
PhD (Animal Genetics, Breeding and Reproduction)	First	3.17	2024	China Agricultural University, Beijing, China

WORK EXPERIENCES

- **Assistant Professor of Animal Breeding** at Department of Animal Science and Aquaculture, Paklihawa Campus, Institute of Agriculture and Animal Science (IAAS), Tribhuvan University, Rupandehi, Nepal (July, 2025 to date)
- **Assistant Professor** at Department of Animal Science, Nepal Polytechnic Institute, Chitwan, Nepal (June, 2022 to June, 2025)
- **Project Officer** at Forum for Rural Welfare and Agricultural Reform for Development (FORWARD)- Nepal, Chitwan (June, 2018 to September, 2018)
- **Adjunct Assistant Lecturer** at Himalayan College of Agricultural Sciences and Technology, Kathmandu, Nepal (July, 2017 to February, 2018)
- **Research Assistant** at Animal Breeding Division, Nepal Agricultural Research Council, Lalitpur (July, 2016 to May, 2018) for Asian Food and Agriculture Cooperation Initiative (AFACI) project

PUBLICATIONS

- Si J, Dai D, Gorkhali NA, Wang M, Wang S, Sapkota S, Kadel RC, Sadaula A, Dhakal A, Faruque MO, Omar AI. Complete Genomic Landscape Reveals Hidden Evolutionary History and Selection Signature in Asian Water Buffaloes (*Bubalus bubalis*). *Advanced Science*. 2025;12(4):2407615. DOI: 10.1002/advs.202407615
- Dhakal A, Si J, Sapkota S, Pauciullo A, Han J, Gorkhali NA, Zhao X, Zhang Y. Whole-genome sequencing reveals genetic structure and adaptive genes in Nepalese buffalo breeds. *BMC Genomics*. 2024;25(1):1082. DOI: 10.1186/s12864-024-10993-w
- Omar AI, Khan YA, Su X, Dhakal A, Hossain S, Razu MT, Si J, Pauciullo A, Faruque O, Zhang Y. Factors Affecting the Milk Production Traits and Lactation Curve of the Indigenous River Buffalo Populations in Bangladesh. *Animals*. 2024;14(8):1248. DOI: 10.3390/ani14081248
- Pokharel Dhakal S, Karki S, Vandyk S, Upadhyaya M, Pandey K, Dhakal A, Premashtira S. Epidemiological Characteristics of the Lumpy Skin Disease Outbreak in Nawalpur, Nepal, 2022. *Transboundary and Emerging Diseases*. 2024;2024(1):2003313. DOI: 10.1155/2024/2003313
- Rakib MR, Ahmed S, Desha NH, Akther S, Rahman MH, Pasha MM, Dhakal A, Sultana N, Hemayet MA. Morphometric features and performances of Black Bengal goat in Bangladesh. *Tropical Animal Health and Production*. 2022;54(341):341. DOI: 10.1007/s11250-022-03334-0
- Gorkhali NA, Dhakal A, Sapkota S, Sherpa C, Pokhrel BR, Kolachhapati MR, Bhattarai N.

Mitochondrial DNA polymorphisms in Nepalese Achhami cattle. Bangladesh Journal of Animal Science. 2020;49(1):22-8. DOI: 10.3329/bjas.v49i1.49374

Gorkhali NA, Sherpa C, Dhakal A, Dhungana S, Sapkota S, Koirala P, Pokhrel BR, Kolachhapati M, Bhattarai N. Genetic Diversity of Nepalese Indigenous Cattle Breeds Based on D-Loop Mitochondrial DNA. Nepal Journal of Science and Technology. 2020;19(2):103-8. DOI: 10.3126/njst.v20i1.39440

RESEACH GRANTS AND AWARDS

- NARDF Master's thesis grant awarded by National Agricultural Research and Development Fund, Nepal in 2016 | Rs 100000.
- Poster Presentation at ISAG25 conference held in Daejeon, South Korea awarded by International Society of Animal Genetics (ISAG) in 2025 | \$2000 (travel bursary).

PROFESSIONAL AFFILIATIONS

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| • Nepal Veterinary Association (NVA) | 2013-Present |
| • Nepal Veterinary Council (NVC) | 2013-Present |
| • International Society for Animal Genetics (ISAG) | 2025-Present |

COMPUTER PROFICIENCY

Computational tools for research and data management:

- Microsoft Office Suite (MS Word, MS Excel, MS PowerPoint): Skilled in preparing research reports, manuscripts, data visualization, and presentations.

Statistical, bioinformatics, and scripting:

- R Software: Skilled in genomic data processing, visualization, and interpretation through custom R scripts.
- Shell-based and Python scripts: Experienced in automating tasks, managing large datasets, and performing bioinformatics analyses efficiently.
- SPSS: Expertise in statistical analysis of complex datasets, including morphometrics and performance evaluation.
- MEGA: Proficient in phylogenetic and evolutionary analysis of genetic data.

I certify that the statements made by me in CV are true, complete and correct to the best of my knowledge and belief.

Dr. Aashish Dhakal