# DR. ROBIN MALIK

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## EDUCATION

**North Dakota State University, Fargo, ND** *2019-2023*
*Ph.D Range Science* GPA: 4.0/4.0
Thesis: Grazing of Secondary Compound-Rich Plants by Ruminants and its Impact on Meat Quality
Advising committee: Dr. Scott Kronberg, Dr. John Hendrickson, Dr. Kevin Sedivec, Dr. Kasey Maddock-Carlin, Dr. Edward DeKeyser

**Murdoch University, Perth, Australia** *2017*
*B.Sc Animal Science (Honours)* Grade: Distinction
Thesis: The Effect of Breed on Feed Intake and Feed Efficiency in Merino and Maternal Type Ewes
Advisor: (late) Sarah Blumer, Dr. Andrew Thompson

**Murdoch University, Perth, Australia** *2014-2016*
*B.Sc Animal Science* Grade: Credit

## WORK EXPERIENCE

**University of California, Davis** Davis, CA
*Postdoctoral Fellow* *2023-Present*

- Current research explores the use of feed additives such as flaxseed, fermented almond hulls, synthetic alternatives of asparagopsis, to reduce enteric methane emissions of beef and dairy cattle.

**USDA Northern Great Plains Research Lab** Mandan, ND
*Ph.D Candiate and research associate* *2021-2023*

- Designed and conducted novel scientific experiments
- Performed statistical analysis of data using R
- Wrote comprehensive summaries of experimental outcomes in the form of scientific papers and doctoral thesis
- Performed soil profiling sampling using hydraulic soil coring and drilling machine
- Assisted technical staff with calving and kidding, as well as caring for orphaned or rejected kids and calves
- Assisted with seeding and spraying (fertiliser, herbicide etc)

**Department of Primary Industries and Regional Development**
*Technical Officer* *2012-2019*

- Performed leaf disease scoring (leaf area infection) for rust and septoria in oats.
- Determined frost induced sterility by examining sterile, frosted and potent grains
- Operated Foss DS2500 to process cereal grains for grain quality parametres using Near-Infrared Spectroscopy (NIRS)
- Processed grains to determine yield using hectolitre weights and grain size

## AWARDS & ACHIEVEMENTS

**Frank Bain Scholarship**
North Dakota State University *2021*

**Best Presentation Award - Young Professionals in Agriculture Forum**
Department of Primary Industries and Regional Development *2018*

**Second Prize Award - Young Professionals in Agriculture Forum**
Department of Primary Industries and Regional Development *2018*

**New Colombo Plan Mobility Grant**
Government of Australia *2018*

## PRESENTATIONS & CONFERENCES

**Annual Meeting - Attended and Presented** Boise, ID
Society for Range Management *February 2023*

**NDSU Extension/Rec Fall Conference - Attended and Presented** Fargo, ND
North Dakota State University *November 2022*

**Graduate Research Day - Attended and Presented** Fargo, ND
North Dakota State University *April 2022*

**Annual Meeting - Attended and Presented** Albuquerque, NM
Society for Range Management *February 2022*

**Crop Update** Perth, Australia
Grains Research and Development Corporation *February 2019*

**Guest Speaker** Beijing, China
Animal Science Faculty, Beijing University of Agriculture *July 2017*

## PUBLICATIONS

**Evaluating Fecal DNA Metabarcoding to Estimate the Dietary Botanical Composition of Goats**
Journal of Rangeland Ecology and Management *May 2024*
*Click here to read*

**Submitted for Publication:**

**Cattle or Goat? - For Targeted Grazing Plant Control**
Journal of Rangeland Ecology and Management *October 2024*

**Effect of Forage Diet Diversity on Goat Carcass and Meat Quality**
Animal, The International Journal of Animal Biosciences *July 2024*