Wenji Wang

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EDUCATION

Aarhus University AU Viborg, Denmark **(2019-2022)**

PhD in Animal Science

- N metabolism and greenhouse gas mitigation in dairy cows.

Lanzhou University Lanzhou, Gansu, China **(2016-2019)**

Master in Ecology

- Ruminant nutrition ecology.

Shandong Agricultural University Taian, Shandong, China **(2012-2016)**

Bachelor in Biology

- General biology education including: Botany, Zoology, Biochemistry, Microbiology, Ecology, etc.

WORK EXPERIENCE

Postdoc	Aarhus University	**(2023.2-present)**
Postdoc offer	UC Davis	**(2023.2)**
Research Assistant	Aarhus University	**(2022.9-2022.11)**

RESEARCH INTEREST

My research focuses on ruminant nutrition, with particular emphasis on improving feed efficiency and nitrogen metabolism to enhance animal performance and resource use. I am especially interested in developing and evaluating nutritional strategies—such as dietary manipulation and feed additives—to mitigate enteric greenhouse gas emissions, particularly methane, from livestock. My work integrates aspects of animal physiology, nutrient utilization, and environmental sustainability to support low-emission livestock production systems.

RESEARCH EXPERIENCE

My PhD research focused on the effects of feed processing, forage sources, protein supply, and feed additives on methane emission, N metabolism, and feed efficiency in dairy cows. I conducted both intensive and production trial using fistulated and intact cows and using GreenFeed system and respiration chamber for measuring gas emissions. As a postdoctoral researcher, I led a collaborative project with industry partners, including Novozymes and Nestlé, to evaluate novel methane mitigation strategies.

TEACHING EXPERIENCE

I have experience in giving lectures and serving as teaching assistant in several master level courses, such as ‘Animal Production Practice’, ‘Carbon Cycling and Climate Change, and ‘Nutrient Cycling and Environmental Management’.

KEY SKILLS

- Independent and critical thinking
- Problem solving
- Communication such as giving presentations, scientific writing etc.
- Data analysis
- Teamworking

SELECTED PUBLICATIONS

1. **Wang, W.**, Aljundi, A., Hansen, N. P., Weisbjerg, M. R., Lund, P., Larsen, P. 2025. Effect of dehulling and toasting at different moisture contents of fava beans (Vicia faba) on chemical composition and in-situ ruminal protein degradation. Animal Feed Science and Technology. 323, 116281. https://doi.org/10.1016/j.anifeedsci.2025.116281.
2. **Wang, W.**, Larsen, M., Weisbjerg, M. R., Hellwing, A. L. F., and Lund, P. 2024. Effect of nitrate supplementation on diurnal emission of enteric methane and nitrous oxide. JDS Communications. 5 (6), 558-562. https://doi.org/10.3168/jdsc.2023-0541.
3. **Wang, W.**, Lund, P., Larsen, P., Weisbjerg, M. R. 2023. Effect of nitrate supplementation, dietary protein supply, and genetic yield index on performance, methane emission, and N efficiency in dairy cows. Journal of Dairy Science. 106, 5433-5451. https://doi.org/10.3168/jds.2022-22906.
4. **Wang**, **W. J.**, Larsen, M., Weisbjerg, M. R., Johansen, M., Hellwing, A. L. F., Lund, P. 2022. Effects of particle size and toasting of fava beans and forage source on nutrient digestibility, ruminal fermentation, and metabolizable protein supply in dairy cows, Journal of Dairy Science. 105, 8806-8823. https://doi.org/10.3168/jds.2021-21653.

Languages

- Chinese: Native
- English: Fluent
- Danish: Basic