CURRICULUM VITAE

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Profile

I am a postdoc within the scientific area of ruminant nutrition, especially with focus on enteric methane. I have been involved in experiments with the purpose of reducing enteric methane, and currently, I am involved in experiments where downstream effects are investigated as well.

Experience

Postdoc at Department of Animal Science, Aarhus University

January 2024 – December 2027 (potentially extended due to pregnancy- and maternity leave, 9 months)

PhD fellow at Department of Animal Science, Aarhus University

August 2019 – December 2023

The PhD project focused on methane reducing feed additives, carbon dioxide production as a marker and phenotypic traits for between-cow variation in enteric methane production. I was on maternity leave, and another leave due to a ministry task (5 months). I handed in my thesis December 2023. Supervisor: Peter Lund, co-supervisor: Martin Riis Weisbjerg.

Master Thesis in collaboration with SEGES

August 2018 – June 2019

I was involved in an experiment on five commercial dairy farms with dry cow silage, where we investigated the potential of dry cow silage as a feeding strategy to optimize dry cow feeding with focus on the fermentation process. Supervisors: Niels Bastian Kristensen (SEGES) and Ole Højberg (AU).

Publications

Kjeldsen, M. H., Weisbjerg, M. R., Larsen, M., Højberg, O., Ohlsson, C., Walker, N., Hellwing, A. L. F., & Lund, P. Gas exchange, rumen hydrogen sinks, and nutrient digestibility and metabolism in lactating dairy cows fed 3-NOP and cracked rapeseed. J Dairy Sci. 2024 Apr;107(4):2047-2065. doi: 10.3168/jds.2023-23743

Kjeldsen, M. H., Johansen, M., Weisbjerg, M. R., Hellwing, A. L. F., Bannink, A., Colombini, S., Crompton, L., Dijkstra, J., Eugène, M., Guinguina, A., Hristov, A., Huhtanen, P., Jonker, A., Kreuzer, M., Kuhla, B., Martin, C., Moate, P. J., Niu, P., Peiren, N., Reynolds, C., Williams, S. R. O., & Lund, P. Predicting CO_2 production of lactating dairy cows from animal, dietary, and production traits using an international dataset. J. Dairy Sci. Volume 107, Issue 9, September 2024, Pages 6771-6784

Kjeldsen, M. H., Rozada, T. de E., Noel, S. J., Schönherz, A., Hellwing, A. L. F., Lund, P., & Weisbjerg, M. R. Phenotypic traits related to methane emissions from Holstein dairy cows challenged by low or high forage proportion. J Dairy Sci. 2024 Dec;107(12):10787-10810. doi: 10.3168/jds.2024-24848.

Kjeldsen, M. H., Jensen, M. B., & Lund, P. Potent methane reducing feed additives in a Danish context, and their reduction potential, additive effects, risks related to animal welfare and carry-over to milk, and potential trade-offs. 88 pages. Advisory report from DCA – Danish Centre for Food and Agriculture, Aarhus University, submitted: 30.01.2023.