

Susanna Elisabeth Räisänen

Tenure Track Assistant Professor
Department of Animal and Veterinary Science
Ruminant Nutrition Section
Blichers Allé 20
Bygning 8841/C20, room 3044
8830 Tjele
Danmark

Email: susanna.raisanen@anivet.au.dk

[AU PURE Research Profile](#)

ORCID: <https://orcid.org/0000-0001-9199-7026>

Education:

- Doctor of Philosophy in Animal Science, August 2021
The Pennsylvania State University
Supervisor: Alexander N. Hristov
- Master of Science in Animal Science, June 2016
The Swedish University of Agricultural Sciences
- Bachelor of Science in Animal Science, September 2014
The Swedish University of Agricultural Sciences

Employment:

- January 2025 – present, Tenure Track Assistant Professor
Aarhus University, Department of Animal and Veterinary Science
 - *Grant writing and project planning*
 - *Overseeing and execution of (animal) experiments*
 - *Experimental design and animal research applications*
 - *(Co)supervising doctoral students*
 - *Publication of research findings in scientific journals*
 - *Long-term planning of research directions*
 - *Teaching in the Animal Sciences program*
 - *Outreach and networking for collaboration within Denmark and internationally*
- August 2024 to December 2024 – Postdoctoral Researcher
University of Helsinki, Department of Agricultural Sciences/Animal Science
 - *Overseeing/managing animal experiments*
 - *Co-supervising doctoral and master's students*
 - *Publication of research findings in scientific journals*
- September 2022 to June 2024 – Postdoctoral Researcher/Study Director/Senior Assistant
(Oberassistent)
ETH Zürich, Institute of Agricultural Sciences, Animal Nutrition Group
 - *Overseeing animal experiments within the group and project coordination with AgroVet-Strickhof research team*
 - *Experimental design and animal research license applications*
 - *Co-supervising doctoral and master's students*
 - *Publication of research findings in scientific journals*
 - *Long-term planning of group research directions*
 - *Grant writing and budget planning*
 - *Lecturer in Agricultural Sciences program Bachelor's and Master's level*

- *Outreach and networking for collaboration within and outside Switzerland*
- August 2021 to August 2022, and August 2024 to December 2024 – Postdoctoral Researcher
University of Helsinki, Department of Agricultural Sciences/Animal Science
 - *Overseeing/managing animal experiments*
 - *Co-supervising doctoral and master's students*
 - *Publication of research findings in scientific journals*
 - *Presenting research in scientific conferences*
 - *Teaching in Agricultural Sciences program Master's level*
- January 2017 to August 2021 – Research Assistant
The Pennsylvania State University, Department of Animal Science
 - *Managing animal experiments*
 - *Training group members in experimental design, laboratory and statistical analysis, and scientific writing*
 - *Publication of research findings in scientific journals*
 - *Presenting research in scientific conferences*

Research experience:

- Aarhus University (January 2025 - current): Work package leader (N-LIFE project) on two dairy nutrition experiments related to protein and nitrogen feeding and utilization, nutritional physiology and emissions. Meta-analysis on estimation of microbial protein synthesis and production responses to varying levels of dietary protein.
- ETH Zürich (September 2022 – June 2024; on-going collaboration): Study director for 9 animal experiments and 1 in vitro experiment related to dairy cow nutrition and nutritional physiology, mitigation of greenhouse gas emissions, nitrogen efficiency, and amino acid requirements. Co-author on 12 published peer-reviewed articles.
- University of Helsinki (August 2021 – August 2022; on-going collaboration): Lead researcher of 3 dairy nutrition experiments and 1 in vitro experiment related to use of legumes in dairy cow diets, and related nitrogen utilization, and mitigation of nitrogen and methane emissions. First author on 3 published peer-reviewed articles, co-author on 1 published peer-reviewed article.
- The Pennsylvania State University (January 2017 – August 2021; on-going collaboration): Lead researcher of 7 dairy nutrition experiments and 2 in vitro experiments related to amino acid requirements and metabolism, and assessment of bioavailability of rumen-protected amino acids. Co-leading, training and support on more than 20 additional research projects related to protein and energy feeds for lactating dairy cows, as well as feed additives and feeding strategies to reduce enteric methane emissions from dairy cows. First author on 8 published peer-reviewed articles and co-author on more than 20 publications.

Publication metrics (retrieved 20/03/2026):

Peer-Reviewed journal articles: Total 46 (First author 11; second author 11)

H-index/i10-index (GoogleScholar): 18/32

Number of citations: 1202

Top-cited articles:

- Stefenoni et al., 2021; JDS, 104:4157-4173: 238 citations
- Melgar et al., 2020; JDS, 103:6145-6156: 120 citations
- Melgar et al., 2021; JDS, 104:357-366: 98 citations

Supervision of junior researchers:

- PhD students:
 - Theodora Michou, Department of Animal Veterinary Science, Aarhus University (Co-supervisor)
 - Mario Barrientos Blanco, Institute of Agricultural Sciences, ETH Zürich (Co-supervisor)
 - Rong Peng, Institute of Agricultural Sciences, ETH Zürich (Co-supervisor)
 - Xiaoqi Ma, Institute of Agricultural Sciences, ETH Zürich (Co-supervisor)
 - Md Zakirul Islam, Institute of Agricultural Sciences, ETH Zürich (Co-supervisor)
 - Kai Wang, Institute of Agricultural Sciences, ETH Zürich (Co-supervisor)
 - Olli Pitkänen, Department of Agricultural Sciences, University of Helsinki (Co-supervisor)
- Master's students:
 - Alana Schudel, Institute of Agricultural Sciences, ETH Zürich (Main supervisor)
 - Jussi Väättäinen, Department of Agricultural Sciences, University of Helsinki (Main supervisor)
 - Þorbjörg Helga Sigurdardóttir, Department of Agricultural Sciences, University of Helsinki (Co-supervisor)
 - Tiina Kuivasniemi, Department of Agricultural Sciences, University of Helsinki (Co-supervisor)
 - Laura Havukainen, Department of Agricultural Sciences, University of Helsinki (Co-supervisor)

Teaching activities:

- Lecturer 'Animal Nutrition and Feeding', bachelor's level (ANIVET, Aarhus University)
- Lecturer 'Ruminant Science', master's level (Institute of Agricultural Sciences, ETH Zürich)
- Lecturer 'Quality of Products of Animal Origin', bachelor's level (Institute of Agricultural Sciences, ETH Zürich)
- Guest lecturer 'Ruminant Physiology', master's level (Department of Agricultural Sciences, University of Helsinki)
- Teaching assistant 'Principals of Animal Nutrition', undergraduate level (Penn State, College of Agricultural Sciences)

Grants and fellowships:

- 2025, Project Partner: "N-LIFE Kvantificering og reduktion af kvælstoftab og emission af drivhusgasser fra malkekvæg og kvæggylle"; Funded by Danish Agricultural Agency.
- 2024, Project Partner: "Improving animal welfare with non-invasive breathomics approach for health assessment of dairy cows"; CHF 397,656. Funded by Swiss National Science Foundation
- 2023, Co-PI: "Mitigation of greenhouse gas emissions and nitrogen excretions from lactating dairy cows through feed additives and optimization of protein nutrition": CHF 196,736. Funded by Nestle
- 2022, PI/ETH Post-Doctoral Fellowship "Examining the effect of protein-energy interaction on the utilization efficiency of amino acids and nitrogen in pursuit of reduced nitrogen emissions from lactating dairy cows": CHF 233,900. Awarded by the ETH Fellowship Programs

Scientific leadership:

- Work-package leader: N-LIFE project (N-LIFE Kvantificering og reduktion af kvælstoftab og emission af drivhusgasser fra malkekvæg og kvæggylle)

Trainings and Courses:

- University Pedagogical Program (AU; Autumn 2025)
- Course in research-based public sector consultancy (AU; May 2025)
- Training for persons responsible for directing animal experiments (ETH Zürich; September 2022)
- Course in Teaching and Learning in Agricultural Science (Penn State, 2019)

Public outreach:

- Speaker at a pre-conference symposium arranged by Balchem at Cornell Nutrition Conference; October 2025
 - <https://balchem.com/events/cornell-nutrition-conference>
- RealScience Exchange Podcast with Balchem June 2023; January 2024; January 2025
 - <https://www.youtube.com/watch?v=hlo00G7HW-k>;
 - <https://www.youtube.com/watch?v=TpVKfIES-QY>;
 - <https://www.youtube.com/watch?v=G1vV6Y8t-3s&t=452s>
- Article in Die Grüne (Swiss Agricultural industry magazine), March 2023
 - <https://www.diegruene.ch/artikel/vermishtes/die-ausatempluft-von-kuehen-analysieren-461730>
- Panel member at EAAP 2023 conference: “Is there a future for experimental animal research in Europe and, if so, what is it?”
 - <https://www.pigweb.eu/news-events>
- Speaker at the Night of Science event, University of Helsinki, January 2022.
 - <https://www2.helsinki.fi/fi/unitube/video/139be886-d51e-4903-bce7-80afbe57a8bd>