

# GIULIO GIAGNONI

I am specialized in ruminant nutrition with focus on environmental and climate impact of dairy production. During my PhD I have been working on reducing the climate impact of dairy cows by using conventional feeding strategies and by identifying climate-efficient phenotypes. I am now continuing my work as post-doc. I am experienced with scientific communication, data handling, and a wide range of experimental practises (digestibility, nutrient balances, indirect calorimetry, emissions and animal behaviour).



## WORK EXPERIENCE

- NA  
|  
2023

**Post-doc**  
Department of Animal and Veterinary Sciences, Aarhus University  
📍 AU Viborg, Denmark
- 2023  
|  
2020

**PhD**  
Department of Animal and Veterinary Sciences, Aarhus University  
📍 AU Viborg, Denmark
  - Data analysis with focus on nutrition and between-animal variation
  - Oral and writing scientific communications
  - Writing small and big funding applications
- 2020  
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2019

**Research Assistant**  
Department of Animal Science, Aarhus University  
📍 AU Viborg, Denmark
  - Data analysis skills with focus on predictive model and cross-validation
  - Development and modification of lab methods
- 2015  
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2014

**Assistant Herd Manager**  
R Walker & Son, Home Farm  
📍 Cheltenham, United Kingdom  
300 milking cows
- 2014  
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2013

**Dairy Assistant**  
JADEN GRAY FARMING Ltd.  
📍 Otorohanga, New Zealand  
500 milking cows



## EDUCATION

- 2023  
|  
2020

**PhD Student**  
Department of Animal and Veterinary Sciences, Aarhus University  
📍 AU Viborg, Denmark  
  
[Thesis link](#)
- 2019  
|  
2017

**Master of Science**  
Department of Animal Science, Aarhus University  
📍 Aarhus, Denmark
  - Running production trial
  - Data analysis with R
  - Course with focus on animal nutrition
- 2017  
|  
2015

**Bachelor of Science**  
Department of Agricultural, Forestry and food Sciences  
📍 Turin, Italy
  - General agriculture studies with focus on agronomy, crops and animal production

## CONTACT INFO

- 📞 +45 50235456
- ✉ [giuliogiagnoni@gmail.com](mailto:giuliogiagnoni@gmail.com)
- 📍 Gøteborg Alle 3, 8200  
Aarhus, Denmark
- 🌐 [giuliogiagnoni.netlify.app](https://giuliogiagnoni.netlify.app)
- 🌐 AU Pure

## SOCIAL MEDIA

- [LinkedIn](#)
- [Orcid](#)
- [ResearchGate](#)
- [GitHub](#)

## KEY SKILLS

- Independent and critical thinking
- Communication – academic and non writing, oral and online
- Problem solving
- Animal nutrition experiment: procedures and designs
- Data handling and analysis (R mainly)
- Teamworking and mentoring

## LANGUAGES

- English
- Italian (Native)
- Danish (Mid)



## SELECTED PRIZES

- 2024 • **EAAP Young Scientist Award**  
EAAP 2024 📍 Firenze, Italy  
With abstract: ““Enteric methane and digestibility: are these phenotypes correlated in dairy cows?”
- 2024 • **Photo Competition 2024**  
Danish National Research Foundation 📍 Copenhagen, Denmark  
Photo: “The digestive system of dairy cows”. [Link](#)
- 2022 • **Nutreco Young Researchers’ Prize**  
Nutreco 📍 Amsterdam, The Netherlands  
Best project for greenhouse gas emission from livestock. [Link](#)



## SELECTED FUNDS

- 2022 • **Gustaf DeLaval Fund**  
DeLaval 📍 Tumba, Sweden  
Precision herd and production management for sustainable food production



## SELECTED COURSES

- 2021 • **Experimental animals**  
Department of Animal Science, Aarhus University 📍 AU Viborg, Denmark
- 2021 • **Modelling cookbook**  
MoSAR, INRAE 📍 Virtual
- 2022 • **Project Management: A Practitioner’s Approach to the Managerial Process**  
Aarhus University 📍 Aarhus, Denmark
- 2022 • **Indirect calorimetry**  
ISEP 2022 📍 Granada, Spain



## SELECTED PROGRAMS

- **Ruminant degradation profile (Shinyapp, R)**  
Program to compute degradation profile of protein, fiber or other nutrient using in sacco technique with fistulated cows. The program was originally made for Feedstuff Evaluation course at Animal Science Master at Aarhus University in 2022, the code is available on my GitHub.  
[https://gigiapps.shinyapps.io/rumen\\_degradation\\_profile/](https://gigiapps.shinyapps.io/rumen_degradation_profile/)
- **Model accuracy evaluation package (R package)**  
This package allow to obtain rapidly model accuracy evaluation parameters for either a single model, multiple model of the same type, or multiple models of the different type. Based on code from <https://animalnutrition.org/software>, available for free on GitHub.  
<https://github.com/giuliogiagnoni/modRMSE>



## SELECTED PUBLICATIONS

- 2025 ● **Effect of Dietary Fat Source and Concentration on Feed Intake, Enteric Methane, and Milk Production in Dairy Cows**  
Giagnoni, Giulio, Lund, Peter, Johansen, Marianne and Weisbjerg, Martin R..  
Journal of Dairy Science. 2025, 108, p 553–567.  
DOI: [10.3168/jds.2024-25446](https://doi.org/10.3168/jds.2024-25446)
- 2025 ● **Relationship between Pyrimidines, Purines, and Fatty Acids in Milk of Dairy Cows Fed Distinct Carbohydrate Types: {{A}} Metabolomic Approach**  
Giagnoni, Giulio, Weisbjerg, Martin Riis, Errico, Michela, Lapris, Marco, Poulsen, Nina Aagaard, Thomsen, Julia Prangchat Stub, Gallo, Antonio and Rocchetti, Gabriele. JDS Communications. 2025, 6, p 24–28.  
DOI: [10.3168/jdsc.2024-0612](https://doi.org/10.3168/jdsc.2024-0612)
- 2024 ● **Feed Intake in Housed Dairy Cows: Validation of a Three-Dimensional Camera-based Feed Intake Measurement System**  
Giagnoni, G., Lassen, J., Lund, P., Foldager, L., Johansen, M. and Weisbjerg, M. R.. animal. 2024, 18, p 101178.  
DOI: [10.1016/j.animal.2024.101178](https://doi.org/10.1016/j.animal.2024.101178)
- 2024 ● **How Much Can Performance Measures Explain of the Between-Cow Variation in Enteric Methane?**  
Giagnoni, Giulio, Friggens, Nicolas C., Johansen, Marianne, Maigaard, Morten, Wang, Wenji, Lund, Peter and Weisbjerg, Martin R.. Journal of Dairy Science. 2024, 107, p 4658–4669.  
DOI: [10.3168/jds.2023-24094](https://doi.org/10.3168/jds.2023-24094)
- 2021 ● **Effect of Exogenous Dietary Phytase and Concentrate Mixtures Based on Faba Beans, Rapeseed Meal or Soybean Meal as Main Protein Source on Phytate and Total Phosphorus Excretion in Dairy Cows**  
Giagnoni, G., Lund, P., Sehested, J. and Johansen, M.. Animal Feed Science and Technology. 2021, 276, p 114913.  
DOI: [10.1016/j.anifeedsci.2021.114913](https://doi.org/10.1016/j.anifeedsci.2021.114913)