



UNIVERSITÀ  
DEGLI STUDI  
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## Curriculum Vitae

Family Name: Arango Quispe

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### Education:

- PhD in Animal and Food Science, Università di Padova (2020-)
- M.Sc. Master's in Nutrition (2017-2018)
- B.Sc. Bachelor's in Animal Science (2007-2013)

### Research areas:

- Ruminant nutrition
- Nutrition strategies to mitigate climate change

## **PhD project:**

Feeding strategies to increase the nutritional value of food of animal origin helps us to identify which nutrient and how much of it is absorbed and passed to the final product. Enrichment of food of animal origin can be done by the evaluation of the stability of micro-encapsulated products and the use of hemp seeds and meal in animal nutrition. As milk is one of the most popular dairy products it is a good example to choose for this purpose. The acidic profile of milk could be improved by the transfer of some fatty acids from feed to food, i.e. omega-three fatty acids, isomers of conjugated linoleic acid (CLA), and so on. The sources of these fatty acids can be found not only among the traditional seeds of oleaginous plants (i.e. linseed, soybean, rapeseed) but also by non-conventional plants as hemp (*Cannabis sativa* L.). The research will be carried out to verify the carry-over of omega-three fatty acids from the hemp meal to milk and meat. Besides, protected products (i.e. micro-encapsulated products) can be used to allow the rumen bypass of omega-three fatty acids. The research will be conducted to evaluate the rumen stability of DHA contained in a micro-encapsulated product based on micro-algae of the genus *Schizochytrium* through an in vitro test which involves the use of Ankom DaisyII apparatus.

## **Supervisor:**

Lucia Bailoni

## **Publications:**

<https://scholar.google.com/citations?user=mYPYhKAAAAAJ>

