



First name/Surname: Sara Khazzar

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Nationality: Italian

Date of birth: 01/09/1995

Place of birth: Veneto, Italy

Education:

- PhD student in Animal and Food Science (2023-)
- Master's degree in Biotechnologies for Food Science (2020-2022)
- Bachelor's degree in Safety and Hygiene of Food Products (2014-2020)

Research areas:

- Nutritional, quality and safety of animal products
- Food Science and Technology
- Chemometric
- Sustainable and smart farming
- Human nutrition, education and food safety

Brief description of Ph.D project:

The project will be focusing on assessing both the organoleptic and nutritional quality and food safety of animal's food. Specifically, the food quality will be mainly related to the nutritional value of different meat and dairy products. Food safety topic will be investigated so as to identify the main contaminants and

microbiology hazards in such food, which could in any way harm the final consumer. Furthermore, a comparison will be carried out in order to highlight the main differences among meat products and meat analogues, as well as by-products available for directly human nutrition or as feed for animal food producers. With the scope of characterizing the main chemical and nutritional traits of the investigated food samples, the second task refers to a multi-analytical approach will be performed. For these purposes, many spectroscopy instruments will be used to assess a specific targeted and/or untargeted fingerprinting, which is necessary to apply multivariate classification/qualification methods to efficiently extract the maximum amount of meaningful information from large dataset, statistical procedures that have been defined as chemometric techniques. The third topic of the activity will be addressed at exploring the possibility to apply the experimental outcomes in operative condition such as innovative food control practices, including public authorities and policy makers. The effectiveness and the current dissemination tools will be also investigated in order to apply them to promote such awareness and to communicate research activities and results to and among stakeholders.

Supervisor:

Professor Segato Severino