



First name/Surname: Ingrid Maria Sousa Gurgel do Amaral

Telephone: +39 3394601808

E-mail: ingrid.sousa@studenti.unipd.it

Nationality: Brazil

Date of birth: 23/10/1996

Place of birth: Brasilia, Brazil

Education:

- PhD student in Animal and Food Science (2025-)
- Master student in Biotechnologies for Food science (2021-2023)
- Bachelor student in Molecular Biology (2015-2021)

Research areas:

- Food Science and Technology
- Food quality

Brief description of Ph.D project:

Milk plays an important role in human nutrition because it provides a concentrated supply of essential nutrients in a highly bioavailable form. Its proteins deliver all indispensable amino acids needed for growth and tissue maintenance, while milk fat provides energy and serves as a carrier for fat-soluble vitamins. For this reason, studying milk nutrients is crucial to monitor its nutritional quality, understand how farming conditions and industrial processing can modify micronutrient levels, and develop strategies to preserve or enhance the health value of dairy products. In

this context, my research focuses on describing the vitamin composition of milk and the factors that influence it, considering both the impact of processing steps and the variability linked to animal and environmental conditions, with the aim of clarifying how milk's nutritional quality evolves along the production chain.

Supervisor:

Professor Massimo De Marchi

Publications: Google scholar link

https://scholar.google.com/citations?view_op=list_works&hl=it&authuser=3&user=-nwjoMAAAAJ