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Education:

- PhD student in Animal and Food Science, University of Padua (2024-)
- Research fellowship: *“Progettazione di preparazioni vegetali funzionali ad elevato contenuto di servizio”* (March 2024-October 2024)
- Master student in Food Science and Technology, University of Padua (2021-2023)
- Bachelor student in Food Science and Technology, University of Padua (2018-2021)

Research areas:

- Functional food
- Food bioactive compounds
- Food Science and Technology
- Food by-products

Brief description of Ph.D project:

This PhD project, conducted in collaboration with Ghisetti 1870, a leader in the production of fifth-range vegetables, aims to bridge the gap between scientific innovation and industrial scalability. The research focuses on the development of

functional and convenience foods that meet consumer demand for sustainable, practical, and health-conscious options, while maximizing the potential of agri-food by-products.

The project will leverage advanced green technologies to optimize the extraction of bioactive compounds such as natural antioxidants, antimicrobials, and enzyme inhibitors from plant processing residues, including peels, stems, and trimmings. These compounds will be incorporated into clean-label formulations to enhance shelf life, nutritional quality, and functional properties, reducing reliance on synthetic additives and aligning with sustainability goals. Additionally, the project will explore the creation of innovative convenience and functional foods using high-quality natural ingredients, including those derived from by-products.

Pilot trials will be conducted within an industrial setting to validate the feasibility of the processes, laying the groundwork for future scalability.

By combining agri-food by-products valorization with practical food innovation, this project addresses critical challenges such as reducing food waste, optimizing resource use, and advancing circular economy principles. Through the integration of rigorous academic research with industrial expertise, this initiative seeks to deliver impactful contributions to sustainable food systems and functional food innovation.

Supervisor:

Prof.ssa Anna Lante

Co-supervisor:

Prof.ssa Dasha Mihaylova

Publications: Google scholar link

<https://scholar.google.it/citations?user=6St5588AAAAJ&hl=it&authuser=1&oi=ao>