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#### Education:

- PhD in Animal and Food Science, University of Padova (2021- )
- Research Fellowship: Research and study on the sequencing of the 16S rRNA gene in soil DNA (6 months 2021)
- Short specialization degree in Food Quality and Safety (2020-2021)
- M.Sc. Marine Biology (2016-2018)
- B.Sc. Biology (2013-2016)

#### Research areas:

- Molecular Biology
- Next-generation sequencing
- Microbiome profiling
- Food authenticity and quality

#### Brief description of Ph.D project:

Next-Generation Sequencing (NGS) combined with bioinformatic approaches are revolutionizing food microbiology and expanding our understanding of the

composition and role of microbial communities in food matrices. These culture-independent methods generate large amounts of data and favor the discovery of complex dynamics affecting food quality. Moreover, this technology is developing at a rapid pace, with continuous improvement in quality and cost reduction. The application of metagenomics for food safety and quality improvement offers exciting opportunities for predicting the presence or emergence of pathogens and observing the entire microbial communities of food matrices. The aim of this project is the development of a high-resolution microbiome profiling approach for food quality evaluation and the definition of an innovative, highly sensitive, and very selective method in food quality monitoring.

Supervisor:

Piergiorgio Stevanato

Publications:

[https://scholar.google.com/citations?view\\_op=list\\_works&hl=it&user=Tv\\_Gxn4AAAJ](https://scholar.google.com/citations?view_op=list_works&hl=it&user=Tv_Gxn4AAAJ)

<https://www.researchgate.net/profile/Giulia-Zardinoni>