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#### Education:

- PhD student in Animal and Food Science (2022- continued)- PhD grant funded by PON R&I 2014- 2021
- Master in Marine Biology (2019-2021), University of Padua, Italy
- Bachelor in Biological Sciences (2014-2018), University of Eastern Piedmont, Italy

#### Research areas:

- Aquaculture sustainability
- Fish feeding and rearing strategies
- Recirculating aquaculture systems and Aquaponics

#### Brief description of PhD project:

Aquaculture is a well-recognized food sector for its high efficiency in producing nutritious protein-rich foods. However, it is often condemned for unsustainable production practices, especially regarding the use of aquafeeds, containing fish

oil and fishmeal obtained from small pelagic species, and its impacts on the environment as for water and land use, besides associated pollution. Research within my PhD project will investigate the use of alternative vegetal and animal raw materials, with special emphasis on insect meals and by-products, in aquafeed for different farmed species. These aquafeeds will also be evaluated in both recirculating aquaculture (RAS) and aquaponics (AQ) systems, which permit sustainable use and reuse of water and fish byproducts, besides animal and vegetable food production under a variety of environmental conditions.

A multidisciplinary approach, in the experimental facilities of the University of Padova, foreign universities and of the partner company, VRM- NaturAlleva, will be used to evaluate the performance and quality of farmed fish and vegetables, besides fish health and welfare.

Supervisor:

Professor Angela Trocino

Publications:

Google scholar link:

<https://scholar.google.com/citations?user=GUMOuDQAAAAJ&hl=it>

Research Gate link:

<https://www.researchgate.net/profile/Cecilia-Fanizza-3>