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#### Education:

- PhD student in Animal and Food Science (2024- )
- Master student in Agricultural Science (2017-2020)
- Bachelor student in Agricultural Science (2020-2022)

#### Research areas:

- Sustainability in livestock systems
- Pig management
- Beef cattle husbandry
- Animal nutrition

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

Livestock production provides substantial economic and nutritional benefits, supplying high-quality food and raw materials to the agri-food industry. In Europe and Italy, the meat sector - particularly pork and beef - accounts for over 60% of total meat production. However, the sector is under increasing scrutiny due to its environmental footprint, including emissions contributing to global warming, acidification, and biodiversity loss, as well as high water and land usage.

Furthermore, public concerns regarding animal welfare in livestock farming continue to grow. These challenges underscore an urgent need for enhanced sustainability within the sector, achievable through advanced research in animal feeding and management practices. This project, conducted in partnership with UNICARVE, a prominent beef producers' association in Veneto, seeks to develop comprehensive sustainability guidelines and quality standards for beef and pork production. The research focuses on evaluating *Arthrospira platensis*, a protein-rich algae that requires no arable land, as a viable alternative to soybean in pig diets. Additionally, the study will assess the precise protein requirements of Italian heavy pigs to enable optimized feeding strategies, reducing nitrogen emissions and enhancing profitability. Ultimately, the project aims to establish and implement updated sustainability guidelines for livestock farms, working in close collaboration with industry partners to facilitate the adoption of innovative and sustainable farming practices.

Supervisor:

Professor Luigi Gallo