



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Curriculum Vitae

Family Name: Raniolo
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Nationality: Italian
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Education:

- PhD in Animal and Food Science, Università di Padova (2019-)
- M.Sc. Master's in Land and Environment Science and Technology (2016-2018)
- B.Sc. Bachelor's in Environmental Science and Technology (2013-2016)

Research areas:

- Mountain livestock farming systems
- Microbial ecology
- Animal behavior
- Ecosystem services

PhD project:

The Ph.D. project is focused on the study of grazing impact on pasture systems, especially in the mountains area. It is based on an agroecological approach to obtain a holistic characterization of pasture as agroecosystems, integrating multiple analyses. From this standpoint, the project tries to combine data from molecular analysis of soil with behavior inferences of livestock from GPS monitoring. The specific aims of the program are:

- Understanding the relationship among each compartment of grassland agroecosystem and the probable synergies and effects on ecosystem processes.
- Finding biophysical and minimally invasive indicators to characterize specific ecosystem services for the nutrient cycle of N, C, and P.
- Building a scenario model useful to select the most sustainable management and explore positive and negative contributions of grassland systems to their context.
- Using models' outcomes to apply sustainable management of grassland systems, engaging stakeholders, and decision-makers.

A deep understanding of pasture dynamics can be useful to improve grassland system productions and improve the use of grazing livestock as a management tool to conserve the ecosystem.

Supervisor:

Enrico Sturaro

Publications:

<https://scholar.google.com/citations?user=Xb2UXTsAAAAJ&hl=it&authuser=1>