



EDUCATION

NOVEMBER 2024 – PRESENT

PhD in Agricultural Hydraulics and Hydraulic-forestry Systems at the Faculty of Agriculture, University of Bologna. Research focus on irrigation management, soil hydrology, agro-hydrological models, soil moisture sensors and data integration and analysis.

SEPTEMBER 2021 - MARCH 2024

Master's degree in "Precise And Sustainable Agriculture" at the Faculty of Agriculture, University of Bologna. Developed expertise in sustainable agriculture and technologies available in its various sectors. Final thesis: "Performance analysis of a Cosmic Ray Neutron Sensor and data integration into SEPA architecture, for data collection, processing and publication", supervisor: Prof. Gabriele Baroni. Final score: 110/110.

SEPTEMBER 2017 - NOVEMBER 2021

Degree in Agricultural Sciences and Technologies, earned as an Agricultural Production student at the School of Agriculture and Veterinary Medicine of Turin. Developed a solid interest in sustainability in the use of resources in agriculture. Final thesis: "Efficiency and sustainability in tomato irrigation management", supervisor Prof. Laura Zavattaro. Final score: 90/110.

WORK AND ACADEMIC EXPERIENCES

OCTOBER 2025

Co-author of the paper "Towards a non-invasive monitoring of the soil-plant-atmosphere interactions: insights from a Mediterranean vineyard case study" (Mazzoleni et al., 2025).

Preprint: <https://doi.org/10.21203/rs.3.rs-7981024/v1>

JULY 2024

Co-author of the paper "Enhancing precision agriculture with cosmic-ray neutron sensing: monitoring soil moisture dynamics and its impact on grapevine physiology" (Mazzoleni et al., 2024) presented at "Proceedings of the 16th International Conference on Precision Agriculture" (21-24 July 2024, Manhattan, Kansas, United States).

APRIL 2023 – PRESENT

Agronomist at VAIMEE s.r.l., focused on services for sustainable agriculture. Involved in the development of innovative solutions for efficient irrigation management and soil humidity monitoring.

AUGUST 2023 – MARCH 2024

Trainee at VAIMEE s.r.l., employed in the development of management systems, analysis and representation of data coming from environmental parameter sensors, to optimize decision support services for farmers.

PROFILE

I deal with technologies applied to agriculture focused on sustainability and the reduction of resource consumption. My skills lie in the collection and analysis of environmental and agricultural data. In recent years, I have placed my focus on water management, particularly in relation to innovative soil moisture sensors and decision support systems for irrigation advice. Throughout my experience I developed a good ability in working in heterogeneous groups and good listening skills.

CONTACTS

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MAIN SKILLS

LANGUAGE SKILLS

Italian (native language), English (B2), French (B2).

IT SKILLS

Microsoft Office, MacOs, Qgis, Grafana, R.

ACTIVITIES AND INTERESTS

Sports, Music, Travelling, Hiking.