

## Professional experience

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2023 - 2024 **Research fellowship**

Parasitology laboratory, faculty of biology and biotechnology, University of Pavia

Supervisor: Dott. Michele Castelli.

Title: “Vectors and vector-borne diseases: field and molecular analysis on ticks and associated microorganisms”.

Lead part of the fellowship program in Genewiz, involved in genomic sequencing projects. GENEWIZ from Azenta Life Sciences, Leipzig, Germany.  
[April, 2024] – Ongoing.

2018 **Erasmus+ Program**

Latvia University of Life Sciences and Technologies, Jelgava  
Forest Faculty and Faculty of Agriculture

2014 **Leonardo da Vinci Project – exchange students**

<https://www.efitalia.it/erasmus/progetto/progetto-leonardo/>

Traineeship and French language course at Alliance française de Rouen

## Education

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2021-2023 **M.Sc. in Experimental and Applied Biology, Università di Pavia**

Supervisor: Prof. D. Sasserà

Thesis – “Morphological and molecular analysis of the *Rhipicephalus microplus* tick and its associated pathogens: a case study in Punjab (Pakistan)”

2016-2020 **B.Sc. in Forest and environmental science, Università Politecnica delle Marche**

Supervisor: Prof. G. Toscano

Thesis – “Technological aspects of wood heat treatment”

2009-2015 **Agricultural technical institute, Celso Ulpiani**

Additional specialization as wine technician (sixth year)

## Personal skills

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Strong cooperation and communication abilities were formed through university coursework, laboratory work (including in foreign countries), volleyball practice, four years of work in a restaurant (mostly during the university studies), and involvement with Italian civil protection volunteers.

Organizational skills and ability to solve problem independently.

Driving permits: cars and motorcycle (class B and A).

Hiking, sci, and trekking experience.

## Technical skills and competence

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- Computer skills:

Microsoft Office (Word, Power-Point, Excel), Email management, Google drive management. Analysis of database, research and analysis of scientific articles. Bibliography management (Mendeley, Paperpile, Zotero). Seaview. Serial Cloner. Chromas. QGIS. Blust. NCBI. jModelTest.

- Laboratory skills:

Molecular biology: DNA and RNA extraction and quantification, PCR, qPCR, DNA and RNA purification and Clean-up, electrophoresis, DNA sequence analysis, DNA and RNA NGS techniques (including: DNA and RNA fragment analysis, cDNA Synthesis, processing sample and pools preparation in order to sequencing, Illumina Nova Seq X).

Microbiology: culture media, isolation, and inoculation.

Cell biology: working in sterile conditions, use of microscopy.

Parasitology: field collection of ticks, morphological analysis of ticks.

## Language

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**Italian:** native speaker; **English:** fluent; **French:** elementary