

Eleonora Fabris

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PhD student in Mountain Environment and Agriculture

LANGUAGES

Italian: Native

English: C1 (Cambridge English Level 2
Certificate in ESOL International (First) and
Duolingo English Test 130)

German: B1 (Goethe - Zertifikat B1)

TECHNICAL SKILLS

Experimental design

Laboratory techniques: analytical chemistry
(GC–MS, SPME, CLSA, solvent extraction) and
chemical characterization of natural products
and materials (ATR-FTIR spectroscopy, NMR
spectroscopy)

Scientific writing

Literature review and synthesis

Microsoft Office Suite

R (statistical analysis and data visualization)

EDUCATION

PhD in Mountain Environment and Agriculture

November 2024 – Present

Free University of Bozen-Bolzano

Dissertation title: Semiochemicals in tritrophic interactions and communication of apple aphids
Eriosoma lanigerum and *Dysaphis plantaginea* for sustainable pest control

M.Sc.in Chemistry and Sustainable Technologies

September 2022 – October 2024

Ca' Foscari University of Venice

Grade: 110/110 cum laude

Master's Thesis: An investigation of innovative tanning agents

B.Sc. in Chemistry and Sustainable Technologies

September 2019 – July 2022

Ca' Foscari University of Venice

Grade: 110/110 cum laude

Bachelor's Thesis: Synthesis of fluxing and rejuvenating additives for asphalt from waste cooking oil

PUBLICATIONS

Bardella, N., Facchin, M., Fabris, E., Baldan, M.,
& Beghetto, V. (2024). *Waste Cooking Oil as
Eco-Friendly Rejuvenator for Reclaimed Asphalt
Pavement*. **Materials**, 17(7), 1477.
<https://doi.org/10.3390/ma17071477>

CONFERENCE PRESENTATIONS

Oral presentation at Aphidophaga16 | Bologna,
8-12 September 2025

Title: Chemical alarm signalling in *Dysaphis
plantaginea*: characterization and ecological
implications

Poster presentation at IOBC-BENEFruits2025 |
Wageningen, 14-18 September 2025

Title: Chemical investigation of the alarm
pheromone of *Eriosoma lanigerum* (Hemiptera:
Aphididae) for sustainable pest management

RESEARCH EXPERIENCE

PhD Researcher

November 2024 – Present

Free University of Bozen-Bolzano

- Designed and carried out laboratory protocols for the collection and analysis of plant- and insect-derived volatile compounds using CLSA, solvent extraction, SPME, and gas chromatography–mass spectrometry (GC–MS).
- Analyzed data using R and advanced statistical methods.
- Analyzed and interpreted experimental data and prepared scientific manuscripts for publication in peer-reviewed journals.
- Collaborated with national and international research partners.

Research Intern

April 2024 – September 2024

Italian Experimental Station for the Leather Industry | Naples, Italy

Conducted leather tanning and retanning trials with innovative tanning agents and characterized samples through mechanical, performance, and ATR-FTIR analyses, including compliance testing for automotive standards.

GRANTS AND AWARDS

- PhD Scholarship, Laimburg Research Centre (2024–2027)
- Award for Best Presentation by a Student | IOBC-WPRS Working groups “Integrated protection of fruit crops”, “Pome fruit arthropods” section at IOBC-BENEFruits2025, Wageningen