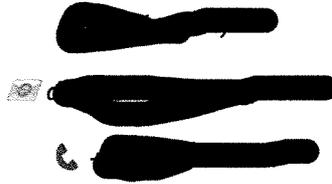


Daniele Callovi



PROFILE

Soil and environmental scientist with experience in agricultural chemistry and biotechnology. Skilled in field and lab trials. Currently involved in studying the effects of organic fertilization on leguminous crops, with an emphasis on N fixation.

EDUCATION

Agricultural Chemistry Winter School

University of Perugia

10-13 February 2025

- The use of bio-based materials in the agroecosystem: Plant-Soil-Microbiome interaction

MSc in Agricultural Science and Technology – Plant Biotechnology

University of Bologna, Italy

Sep 2021–Oct 2023

- Grade: 110/110 cum laude
- Thesis: “Optimal photoperiod and light intensity for indoor cultivation of leafy vegetables in a commercial vertical farm in Sweden”

Erasmus + experience

Swedish University of Agricultural Sciences (SLU)

Sep 2022 – Sep 2023

BSc in Viticulture and Oenology

University of Udine, Italy

Sep 2017 – March 2021

RESEARCH EXPERIENCE

Research Fellow

Department of Agricultural and Food Sciences (Distal) University of Bologna, Italy

(Mar 2024 – Present)

- Study of nitrogen fixation efficiency using isotopic techniques (^{15}N)
- Assessment of fertilizer impact on soil properties and crop nutrition (P focus)
- Elemental analysis and nutrient balance studies (e.g., EA-IRMS, ICP)
- Soil respiration, enzymatic activities, nitrogen mineralization rates

Supervised by Prof. Marco Grigatti

Master's Thesis Intern

Nära Sverige AB, Stockholm, Sweden

February 2023 – April 2023

- Research on different light intensity and photoperiod combinations on the Energy Use Efficiency (EUE) of a commercial plant factory

Intern

Department of Agricultural and Food Sciences (Distal) University of Bologna, Italy

Jan 2022 – Jun 2022

- Research on far-red light impact on plant morphology and physiology
- Plant nutrition management in controlled environments
- Hands-on use of lab instrumentation and data collection for vertical farming

LABORATORY EXPERIENCE

Lab Assistant

Intertek ScanBi Diagnostics AB, Malmö, Sweden

Oct 2022 – Sep 2023

- DNA sampling, extraction, and purification, PCR
- Data analysis

CERTIFICATIONS

- V Course of Statistical Methodology for Agricultural Sciences – R Software
University of Pisa, Italy
- IELTS Certification – C1 level
Treviso, Italy
- Drone Pilot Certificate A1-A3
Luxemburg, Luxemburg

LANGUAGES

- Italian: Native (C2)
- English: Advanced (C1 – IELTS certified)
- Spanish: Intermediate (B1)

GRANTS and SCHOLARSHIP

Erasmus + scholarship 2022-2023



CONFERENCE PARTECIPATION

Callovi D., Grigatti M. Toward sustainable fertilization: the role of recycled organic waste in enhancing legume nutrition. XLIII National Conference of the Italian Society of Agricultural Chemistry (Italy). 23-25 June 2025. Poster Session.

Callovi D., Brecchia M., Grigatti M. Does recycled organic waste-based fertilization affect Nitrogen fixation in legumes? Agricultural Chemistry Winter School (Italy), 10-13 Feb 2025 | In: Book of Abstract: pp. 18.



RESEARCH INTERESTS

- Soil fertility and nutrient cycling
- Sustainable agriculture and organic amendments
- Nitrogen fixation and isotopic applications
- Plant responses to environmental signals in controlled systems



REFERENCES

- Professor Marco Grigatti – University of Bologna, +39 051 2092211
[Redacted contact information]

