

**Sara Martinengo**

Università degli studi di Torino

Vigevano, 21/03/1996

(+39) 338 1257814

[sara.martinengo@unito.it](mailto:sara.martinengo@unito.it)

---

**Current position**

Oct 2020 - present

PhD student

in Agricultural, Forest and Food Science

University of Turin, Grugliasco (IT)

Phosphorus cycling in paddy soils: linking rice productivity  
to ecosystem preservation

supervisor: prof. Luisella Celi

---

**Education**

Oct 2018 - Jul 2020

MSc (Summa cum Laude)

in Agricultural Science (LM 69)

University of Turin, Grugliasco (IT)

Evaluation of Italian rice varieties for adaptation to organic farming

supervisor: prof. Dario Sacco

Oct 2015 - Jul 2018

BSc

in Agricultural Science and Technology (L 25)

Rice growing strategies for Baby Food and Glute-free supply chains

supervisor: prof. Massimo Blandino

---

**Research experience**

May 2020 - Sep 2020

Research fellow

Department of Agricultural, Forest and Food Science

University of Turin, Grugliasco (IT)

Strategie innovative per la sostenibilità e la competitività dei cereali

supervisor: prof. Massimo Blandino

Jun 2018 - Jul 2020

Experimental Research for MSc thesis

Department of Agricultural, Forest and Food Science

University of Turin, Grugliasco (IT)

Concilio per la ricerca in agricoltura e l'analisi dell'economia agraria

Vercelli (IT)

supervisor: prof. Dario Sacco

dott. Stefano Monaco P.h.D

---

**Short term scientific missions abroad**

Jan 2023 - present

Visiting PhD Student

in Plant and Soil Science

University of Delaware, Newark (DE)

Investigations of iron - phosphorus dynamics in rice root rhizosphere  
by synchrotron techniques

Supervisor: prof. Angelia Seyfferth

## Short term scientific missions

---

Jan 2022

Visiting PhD Student  
in Dipartimento di Agraria - Università Federico II di Napoli  
soil enzymatic activity assesment  
Supervisor: prof. Maria Antonietta Rao (dott. Giuseppe di Rauso Simeone P.h.D.)

Nov 2021 - Jan 2021

Visiting PhD Student  
in facoltà di Scienze Agrarie e Alimentari - Università di Milano  
Characterization of soil microbial community related to  
P cycling in rice rhizosphere  
Supervisor: prof. Lucia Cavalca (dott. Sarah Zecchin P.h.D.)

## Contribution to conferences

---

Feb 2023 Influence of water management on Fe:P interaction in rice rhizosphere  
39<sup>th</sup> Rice Tecnical Working Group (Arkansas, USA) - poster

Sep 2022 The need to redefine phosphorus availabilty for paddy rice  
51<sup>st</sup> conference of the Italian Society of Agronomist (Padova, Italy) - poster

Sep 2022 Soil-plant interactions governing phosphorus availability to rice  
XL Congress of the Italian Society of Agricultural Chemistry (Pisa, Italy) - oral

Sep 2022 Root dynamics of phosphorus and iron interaction in rice under  
variable phosphorus availability  
XL Congress of the Italian Society of Agricultural Chemistry (Pisa, Italy) - poster

May 2022 Assessing phosphorus availability to paddy rice:  
soil testing and plant responses  
EGU General Assembly (Vienna, Austria) – oral

Feb 2022 Assessing phosphorus availability to paddy rice:  
soil testing and plant responses  
Agricultural Chemistry Winter School, (Udine, Italy – online) – oral

Sep 2021 Assessing phosphorus availability to paddy rice:  
soil testing and plant responses  
Second Joint Meeting on Soil and Plant System Sciences (Torino, Italy) – poster

May 2019 Field evaluation of rice varieties in two different organic farming systems  
49<sup>st</sup> conference of the italian Society of Agronomist (Bari, Italy) - poster

## Attendance to PhD schools

---

Oct 2022 Summer school on synchrotron X-ray absorption spectroscopy and imaging  
SLAC NATIONAL ACCELERATOR LABORATORY - Stanford University (CA)

Sep 2022 XVI School on Synchrotron Radiation Fundamentals, Methods and Applications  
Società Italiana Luce di Sincrotrone - Trieste (Italy)

Feb 2022 Agricultural Chemistry Winter School  
Società Italiana Chimici Agrari - Udine (Italy)

Dec 2021 Corso di Analisi Multivariata in Agroecologia  
Società Italiana di Agronomia (online)

Nov 2021 Scuola di Comunicazione della ricerca scientifica  
Maria Flora Mangano - Viterbo (Italy)

Feb 2021 Agricultural Chemistry Winter School  
Società Italiana Chimici Agrari - Udine (Italy)

Sep 2021 Quantitative Approach To Soil System Dynamics  
Lake Como School of Advanced Studies (Italy)

### Grants and Awards

---

Feb 2023	Third place in the student poster contest - assigned by the organizing committee
Oct 2022	Best MSc Thesis for the A.Y 2019-2020 - assigned by Univeristy of Turin

### Teaching and mentoring activities

---

Apr - May 2022	Laboratory Assistant - Agricultural Chemical Analysis BSc in Viticulture and Enology, Univeristy of Turin
Oct 2021 - present	Supervisor of the laboratory activity of MSc students during their research activity, main topics: <ul style="list-style-type: none"><li>▪ Organic phosphorus characteristics and redox-driven processes in paddy soils</li><li>▪ Capacity of hairy vetch to mobilize and assimilate P from Fe plaque covered rice roots</li><li>▪ Role of cover crops in P cycling in paddy soils</li></ul>

### Digital skills

---

Office suite: professional knowledge  
Presentations: PowerPoint, Canva, Prezi  
Scientific databases: SciFinder, Web of Science, Scopus  
Chemistry softwares: SigmaPlot  
Statistical analysis: SPSS, R studio, Past!

### Languages

---

Italian	mother tongue
English	Fluent
Spanish	Basic

I authorize the use of my personal data in compliance with the Italian Legislative Decree n. 196/03.

Turin, 28/02/2023

Sara Martinengo