



Maria Sole Morandini

Nationality: Italian **Date of birth:** 13/02/1995 **Place of birth:** Rome, Italy **Gender:** Female

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Work: Via Volturmo 39, 43125 Parma (Italy)

EDUCATION AND TRAINING

Ph.D. in Food Science

University of Parma [01/11/2023 – Current]

City: Parma | Country: Italy

Developed predictive models to evaluate individual cardiometabolic responses to personalized nutritional approaches, based on (poly)phenol-rich diet, investigating the role of their metabolism and interindividual variability.

Master of Science in Human Nutrition

University of Parma [01/10/2020 – 14/10/2022]

City: Parma | Country: Italy

Specialized training in production and services related to the sector of food products with high nutritional value and health benefits (nutraceuticals, functional foods, and dietary supplements), research and development, manufacturing and quality control, food safety monitoring, regulatory affairs, and marketing

Bachelor of Science in Biotechnology

University of Tuscia [01/10/2015 – 17/02/2020]

City: Viterbo | Country: Italy

Theoretical and practical knowledge of various fields of biotechnology.

WORK EXPERIENCE

University of Parma – Parma, Italy

Ph.D. Student

[2023 – Current]

Research activities include:

- Clinical trial management
- Biological sample collection, handling, and processing
- Laboratory techniques (UHPLC-MS/MS, (poly)phenols extraction, cell isolation, *in vitro* digestion)
- Clinical data extraction and biological interpretation
- Application of cardiometabolic risk scores, automatic computation, and results interpretation
- Statistical analysis: uni- and multi-variate analyses
- Coding skills: intermediate R (RStudio), basic Python
- Microsoft Office Suite (Excel, Word, PowerPoint)

University of Parma – Parma, Italy

Research Fellow

[02/2023 – 10/2023]

Conducting and managing the “Oral (Poly)phenol Challenge Test” (ERC PREDICT-CARE) intervention study on interindividual variability in the metabolism of (poly)phenols

University of Parma – Parma, Italy

Junior Trainee

[03/2022 – 10/2022]

Recruited and managed study participants during clinical visits; Isolated peripheral blood mononuclear cells (PBMCs); Assessed bioavailability of dietary (poly)phenols via *in vitro* digestion and UHPLC-MS/MS analysis; Identified and quantified (poly)phenolic

compounds using Xcalibur (Quan Browser); Analyzed urinary biomarkers of food intake and interpreted dietary patterns using BDA database

 **Politecnico di Milano** – Milan, Italy

Junior Trainee

[09/2018 – 12/2018]

Development of scented polymeric nanoparticles capable of interacting with a textile substrate to impart the desired odor-producing properties. Experimental techniques: ROP, NMR, DLS, nanoprecipitation, and UV spectroscopy.

CONFERENCES AND SEMINARS

[2025 – 2025] Portmarnock, Dublin, Ireland

NuGo Week "Molecular understandings to promote healthy and sustainable diets" Poster presentation "An intagrated ML model to unravel phenolic metabotypes and assess their impact on subjects at cardiometabolic risk"

[2025 – 2025]

XXXII International Conference of Polyphenols Oral presentation "Phenolic metabotypes and cardiometabolic health: insight from the PRE-CARE-DIET study"

[2024 – 2024] Drawehn, Germany

D3 Spring School "Data-Driven Deliciousness: The Intersection of Machine Learning and Nutrition"

[2023 – 2023] Karlsruhe, Germany

FoodPhyt Summer School "Handling multi-omics data for personalized nutrition – From basic research to practice"

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING B1 READING B2 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

NETWORKS AND MEMBERSHIPS

[2025 – Current]

Groupe Polyphenols

I authorize the processing of my personal data contained in this CV in accordance with Article 13 of Legislative Decree No. 196 of June 30, 2003 (Personal Data Protection Code) and Article 13 of EU Regulation 2016/679 (General Data Protection Regulation, GDPR).

Parma, 22/04/2026

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