

# ENRICO BUSCAROLI

## Ph.D. in Agricultural Chemistry

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Born on 16/08/1988, Bologna (IT)  
Living in Bologna (IT)



## ABOUT ME

I am a MSc in Agricultural Sciences and I have a PhD in Agricultural Chemistry. I currently work as chemical lab analyst in the field of agro-food safety. I master the most relevant analyses involved in environment and agro-food monitoring, such as chromatography, wet chemistry and separation/extraction techniques, especially multiresidue pesticide analysis. I worked in accredited laboratories (Accredia, QS), I have knowledge of Good Laboratory Practice (GLP) and I am well fond of analyses quality assurance (ISO/IEC 17025). I also master analyses development/optimization and validation. I conducted research in the field of agro-environmental chemistry. I can write research projects and I have some scientific papers published on Impact Factor international journals; I have also authored an industrial patent on recycled paper decontamination for food packaging safety. My mostly desired occupation is working an open, inclusive and challenging environment, possibly in the QC or R&D in the agro-food field, as well as in the environmental monitoring and risk assessment; and therefore using my problem-solving skills to tackle exciting challenges.

## LANGUAGES

### Italian

Native



### English

Proficient



### French

Advanced



### German

Beginner



## RELEVANT EXPERIENCES

### Laboratory Technician, QC Chemical Analyst

#### Conserve Italia

📅 02/2019 - Ongoing 📍 San Lazzaro di Savena, Bologna province

A leading company in Europe in the sector of preserved foods. Conserve Italia Quality Assurance Policy represents a benchmark for preserved food industry

- I perform several chemical analyses on different food/environmental matrices and I take care, along with my team, of routine analyses, utilisation and maintainance of the instruments (GC-MS/MS, LC-MS/MS, spectrophotometers, etc.), lab management, results elaboration and communication, assurance of high quality Indexes of the analyses (as requested by ISO 17025 and internal quality policy) and optimization and validation of methods.

# RELEVANT EXPERIENCES

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## Laboratory Technician, QC Pesticides Analyst

### **Eurovo Group, Chromatography lab**

📅 10/2017 - 04/2018 📍 Occhiobello, Rovigo province

With its 17 production centres in Europe, Eurovo group is a recognized leader in egg products.

- Here, I performed multiresidue analysis in order to detect pesticides traces in egg products, adopting standardised extraction procedures (UNI EN 15662).
- I took care of each step of the analysis, from sample reception to test report emission. Particularly, I was in charge of utilisation and maintenance of analytical instruments (two Orbitrap LC-MS/MS and a GC-MS/MS by Thermo Fischer Scientific)
- As part of the quality policy, analyses were implemented and performed according to ISO 17025 standards, and I took part in validation protocols.

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## Laboratory Technician (Intern)

### **Conserve Italia**

📅 06/2017 - 10/2017 📍 San Lazzaro di Savena, Bologna province

A leading company in Europe in the sector of preserved foods. Conserve Italia Quality Assurance Policy represents a benchmark for preserved food industry (Please note that this is not a duplicate entry. This paragraph refers to my former experience at Conserve Italia as Intern).

- By using QuEChERS extraction and instrumental analysis in LC-MS/MS and GC-MS/MS (Thermo scientific triple quadrupoles) I perform multiresidue analyses on different vegetal matrixes applying standardised procedures (UNI EN 15662)
- I could consolidate my experience in analytical chemistry and I could learn to work accordingly to ISO 17025 quality standards (calibrations, registry maintenance, proficiency tests...)

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## Grant Holder / Research Assistant

### **University of Bologna, department of agricultural sciences**

📅 2014 - 2017

I took part in research project founded by CFR and ENI Donegani institute on hydrocarbons and antibiotics removal from water using synthetic nano-materials (Zeolites).

- I practiced my lab skills for three years, performing routine analyses with HPLC-DAD, ICP-OES spectrometry, FT-IR and TGA. I also managed various aspects of scientific research, such as bibliographic research, data analysis and article publishing.
- I could largely expand my chemical analysis expertise, experimental design settings, and laboratory responsibilities
- Curricular activity integrating my PhD program.

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## Visiting Research Fellow

### **ENSCM, Advanced materials for health and catalysis lab.**

📅 09/2015 - 03/2016 📍 Montpellier, France

I worked at the University of Montpellier 2 in the MACS department facility (Advanced Materials for health and catalysis), in order to develop my personal research project and my PhD thesis.

- I could work in a fully-equipped material chemistry lab, getting acquainted with several analytical techniques such as GC-MS, <sup>13</sup>C NMR spectroscopy and nitrogen porosimetry
- I could largely improve my project managing skills, and I could have the opportunity to work closely with international peers.
- Curricular activity integrating the PhD program.

# EDUCATION

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## Ph.D. in Agricultural, Environmental and Food Sciences and Technologies

### University of Bologna, Department of Agricultural Sciences

📅 01/2014 - 05/2017 📍 Bologna, Italy & Montpellier, France

- I worked on different research projects concerning environment contamination and food packaging safety.
  - I could have speech part to conference, publish scientific articles and take seminars.
  - Curriculum: Agricultural Chemistry (AGR13), safety of food and packaging, material chemistry.
  - Thesis title: Environmentally friendly tools for the removal of emerging pollutants from natural matrices
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## M.Sc. in Managing of the agro-environment, forestry and landscape

### University of Bologna, Faculty of Agriculture

📅 09/2010 - 03/2013

- Final evaluation: 110 cum laude
  - Curriculum: Environmental monitoring, environmental analyses, environmental law, food production quality management.
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## B.Sc. in Sciences of Territory and Agro-forestry

### University of Bologna, Faculty of Agriculture

📅 09/2007 - 12/2010

- Curriculum: Environmental monitoring, Soil Chemistry, Agronomy. Final Evaluation: 106/110
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## High School Diploma (Scientific Curriculum)

### Liceo Scientifico Statale "Niccolò Copernico"

📅 2002 - 2007 📍 Bologna

- Final Score: 84/100
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# TECHNICAL EXPERTISE

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## Chemical Analyses

I can perform many different chemical analyses on food and environmental matrixes, using both wet chemistry and instrumental analysis. I am well versed in Good Laboratory Practices (ISO 17025). I am an expert user of Chromatographs (GC and LC), Mass spectrometers (QQQ, single quadrupole, Orbitrap), UV-Vis spectrophotometers, ICP and IR spectrometers.

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## Team-Oriented

I am pleased to work in a team, and I do my best to build a positive social environment. A happy environment is an efficient environment. I try to be a polite, yet sincere person, and do not avoid to question myself.

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## Scientific communication

I can produce scientific articles and reports in Italian and English, as I have authored some peer-reviewed paper and an industrial patent. I give much credit to verbal and written communication punctuality on the workplace.

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## IT friendly

I can easily use the MS Office softwares (I possess the ECDL license). I can also use LIMS and the Thermo Fisher, Shimadzu and JASCO instrument softwares. I can program in R and Java, and I'm an expert of ADOBE graphic softwares. I have some basic knowledge in coding.

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## Research and experimentation

I implemented, managed or took part in various research projects. I can redact experimental protocols, proposals and scientific articles.

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## Independent

I have ambition for hard challenges. I can work autonomously. I am available for work transfer, even long-lasting or very distant. I possess the European driving license A and B.

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In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Bologna, 27/06/2109