

Eleonora Rossi

PhD student in Industrial Chemistry



Academic Qualifications:

Postgraduate:

2022-2025: Doctorate in Industrial Chemistry –
University of Bologna

Research Project: Life Cycle Assessment Applied to Innovative Chemical Processes

2020-2022: Master Degree Industrial Chemistry –
University of Bologna
Final Score: 110/110

During this master, I had the opportunity to deepen my knowledge about industrial chemistry, especially through the courses *Industrial Polymeric Products and Development and Management of Industrial Chemical Processes*. Thanks to the course *Technologies and Environmental Certification*, I had the opportunity to study LCA analyses and understand their importance for a sustainable development.

Thesis title: *Life cycle assessment (LCA) of a bio-fuel cell fed with waste biomass: potential for scale-up and process optimization*

This Thesis was the result of my six-month internship within the Environmental Chemistry group of the Department of Industrial Chemistry "Toso Montanari" at the University of Bologna.

08/2021-02/2022: International Master Biorefinery – University of Lille
(semester abroad)

I chose to attend a semester in another European country in order to experience an international environment. This master is focused on the valorization of biomass through chemical and biological processes. The sustainability of the processes has been analyzed from various points of view, in courses such as *Bioeconomy, Land Plants and Biorefinery Types*.

Undergraduate:

2017-2020: Bachelor Degree Industrial Chemistry – University of
Bologna
Final score: 108/110

During these three years, I had the opportunity to study the basics of chemistry, especially when applied to the industrial sector. During my studies, I became passionate about green chemistry, which is why I decided to do my internship in environmental chemistry and wrote my thesis about it as well. The courses that fascinated me most were: *Environmental Chemistry, Chemical Technologies for Energy Production, Bioorganic Chemistry, Enzyme Chemistry, Industrial Chemistry*.

Thesis title: *Study of the composition and synthesis of atmospheric particulate for corrosion studies*

This paper focuses on the study of the composition of natural PM with the aim of formulating a representative synthetic particulate and on the study of dust deposition routes to simulate natural deposition, in view of their use for accelerated aging. Numerous data were then processed, collected from articles, and the main fractions of the particulate were analyzed in detail. Then a possible PM formulation was proposed.

Relevant information:

2010-2021: competitive-level career in athletics and as a coach

The life of an athlete has taught me determination, sacrifice and better time management. This allowed me to compete in the Italian championships for the CUSB team for many years. In the last few years, I have decided to pass on my passion by becoming a youth team coach myself.

2019-2022: institutional role as student elected representative in
"Dipartimento Toso Montanari Chimica Industriale- UniBo"

I decided to become an advocate for students' voice in helping to build a better university environment. So, I had the opportunity to attend the department meetings and better understand how the academic system works.

2019-2021: councilor of the student association "Oasi Felice"

To improve the quality of the time that students spend together at the university and to create cohesion among the students in my department, I decided to join this student association.

Personal data:

Name:
Eleonora Rossi

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Date and place of birth:
12 July 1998, Bologna

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Languages:

Italian (Native)

English (Fluent)

French (Beginner)

IT competences:

MS-Office

Additional certificates:

06/2021: IELTS English certificate (mark 6.0)