



# MARTINA MERNINI

## CURRICULUM VITAE



Date of birth / 28/05/1996 Age / 27  
Place of birth / ATINA (FR)  
Nationality/ citizenship / Italy  
GAETA (LT)  
BOLOGNA (BO)  
Driving licence / B / Car available  
ID/4905161 updated on 31/07/23

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☎ 3714933151

### FOREIGN LANGUAGE SKILLS



ENGLISH GOOD	B2	B2	B2	B2	B2
SPANISH FAIR	B1	B1	B1	B1	B1

### DIGITAL COMPETENCES

**Self-assessment grid**   
Information processing **Proficient user**  
Communication **Proficient user**  
Safety **Proficient user**  
Problem solving **Proficient user**

### EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** / Activities for professional qualification  
ECONOMIC SECTOR: **1.** energy, gas, water, mining / **2.** environmental protection / **3.** chemistry  
CAREER FIELD: **1.** R&D and patents / **2.** Quality and security / **3.** Manufacturing  
DESIRED JOB:  
**Researcher and technician graduated in chemistry**  
PREFERRED DISTRICT TO WORK IN: **1.** BOLOGNA / **2.** MODENA  
AVAILABILITY FOR BUSINESS TRAVELS:  
**Yes, including relocation**  
AVAILABILITY TO RELOCATE ABROAD:  
**Yes, even in non-European countries**

### Career Goal

*I wish I would profit by my chemical background to support both researchers and industries devoted mainly in decarbonising our economy, promoting a greener one. I wish I would deal with material science in the field of packaging or energy production and storage through renewable sources, such as photovoltaic, involving also the incoming of nanotechnology. I am also keen with the science of nanostructured material and related techniques such as microscopic and lithographic techniques.*



### WORK EXPERIENCES

#### Electrochemist laboratory specialist

**MG MARPOSS**

*Mechanical engineering and precision engineering*  
BOLOGNA (BO)  
09/2022 - 12/2023

**Main activities and responsibilities:** - Design and characterization of new technologies in the quality control process of battery industries, related to state-of-the-art and new emerging battery chemistries

- Design and characterization of new technologies in the in-process control of battery industries, related to state-of-the-art and new emerging battery chemistries

- Research and prediction of new battery chemistries emerging on the market and related production process

- Research of new parameters and design of new technologies for quality and in-process instrumentation in the battery market sector  
Employed as: office worker - indeterminate length contract | Company sector: R&D and patents

#### scientific laboratory researcher

**MARPOSS**

*Mechanical engineering and precision engineering*  
BENTIVOGLIO (BO)  
04/2022 - 09/2022

**Main activities and responsibilities:** Research and development of new instrumentation for electrochemical laboratory in the field of battery production.

Research and development of instrumentation for the in-line production of batteries and system for energy storage and conversion

Employed as: office worker - fixed-length contract | Company sector: R&D and patents

#### Internship

**ALMA MATER STUDIORUM - UNIVERSITÀ DI BOLOGNA**

*Chemistry*  
BOLOGNA (BO)  
01/2019 - 03/2019

**Main activities and responsibilities:** The research activity was focused on the study of photophysical and photochemical properties of new terarylenes for the development of molecular machines known as pseudo-rotaxanes.

**Acquired skills and achieved objectives:** Ability to use analytical techniques, particularly referring to spectroscopic techniques. Self-standing preparation of required chemical solutions and managing of chemicals in laboratory. Excellent knowledge of ChemOffice as well as Microsoft Office package.

Excellent ability in planning activities and time management. Preparation of weekly reports with discussion in teams.

Employed as: intern/trainee - undergraduate internship | Company sector: R&D and patents



### ACADEMIC STUDIES

PH.D.

Alma Mater Studiorum - Università di Bologna

2022 - 2025  
ONGOING STUDIES



MASTER'S DEGREE  
2019 - 2022  
CERTIFIED TITLE



BACHELOR'S DEGREE  
2015 - 2019  
CERTIFIED TITLE



Faculty: Dipartimento di Chimica Giacomo Ciamician  
Chimica

Expected graduation date: 2025

Alma Mater Studiorum - Università di Bologna  
Scuola di Scienze  
PHOTOCHEMISTRY AND MOLECULAR MATERIALS

LM-54 - 2nd level degree in Chemistry

Dissertation/thesis title: Experimental validation of a novel electrochemical dilatometer for testing metal-ion batteries | Thesis supervisor: ARBIZZANI CATIA

Age at graduation: 25 | Official duration: 2 years

Final degree mark: **110/110 cum laude**

Graduation date: 22/03/2022

Alma Mater Studiorum - Università di Bologna  
Scuola di Scienze

CHIMICA E CHIMICA DEI MATERIALI

L-27 - 1st level degree in Chemistry

Dissertation/thesis title: Fotocromismo di nuovi terarileni | Thesis supervisor: SILVI SERENA

Age at graduation: 22 | Official duration: 3 years

Final degree mark: **99/110**

Graduation date: 21/03/2019



## INFORMATION TECHNOLOGY SKILLS

### OFFICE AUTOMATION

ChemDraw (Highly Specialised) | **Presentation Software:** Microsoft PowerPoint (Highly Specialised) | **Spreadsheets:** Microsoft Excel (Highly Specialised) | **Word Processors:** Microsoft Word (Highly Specialised)

### APPLICATION SOFTWARE

Berkley Madonna (Advanced), Gaussian (Advanced), Molden (Highly Specialised), VMD (Highly Specialised) | **Numerical analysis:** Origin (Highly Specialised)

### DATA MANAGEMENT

Avogadro (Highly Specialised)



## CONFERENCES AND SEMINARS

### WORKSHOPS 23/03/2021

**RSC Desktop Seminar Lectureship with PCCP (Federico Calle-Vallejo)**, Royal Society of Chemistry, Online  
Professor Bo Albinsson (Chalmers University of Technology, PCCP Associate Editor) and 2019 PCCP Emerging Investigator Lectureship Award winner, Dr Federico Calle-Vallejo (Institute of Theoretical and Computational Chemistry, University of Barcelona) presented their latest works, entitled: 'Photon upconversion for solar energy applications' (Professor B. Albinsson) and 'Designing water splitting catalysts using rules of thumb: advantages, dangers and alternatives' (Dr F. Calle-Vallejo)  
Curatorship: Vikki Pritchard; Anna Simpson  
[www.rsc.org/events/detail/46482/rsc-desktop-semi...](http://www.rsc.org/events/detail/46482/rsc-desktop-semi...)

### WORKSHOPS 11/03/2021

**RSC Desktop Seminar Lectureship Series with Journal of Materials Chemistry A, B & C (Qiang Zhang)**, Royal Society of Chemistry, Online  
This seminar featured the 2019 Journal of Materials Chemistry Lectureship Winner, Qiang Zhang, and Journal of Materials Chemistry A and Materials Advances Associate Editor, Kisuk Kang, talking about:  
- Emerging Energy Chemistry at Li metal and Electrolyte Interfaces;  
- New battery chemistry from conventional layered cathode materials for advanced lithium-ion batteries

Curatorship: Lynn Murphy  
[www.rsc.org/events/detail/46477/rsc-desktop-semi...](http://www.rsc.org/events/detail/46477/rsc-desktop-semi...)

## CONFERENCES

01/11/2020

### **European Conference on batteries** , Online

This online event was linked to the launch of the two 'Important Projects of Common European Interest' (IPCEIs) concerning the battery value chain. European and international players from industry, science and politics shared the latest innovations and used the forum for professional exchange as well as for networking.

[battery-conference.eu/](http://battery-conference.eu/)