

Mattia Colalongo

Curriculum Vitae

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Education

2020-2024 **Ph.D. in Chemistry and Material Science**, *Aalto University*, Finland

2017-2019 **Master Degree in Physical Chemistry**, *University La Statale*, Milano

2013-2016 **Bachelor Degree in Chemistry**, *University of L'Aquila*, L'Aquila

Experience

2025-Present **R&D Scientist at Novac SRL**, Modena, Italy:

- Formulation of cathode materials and electrode preparation for Li-ion Batteries
- Electrochemical characterization of single-cells and battery packs as well as in climatic chambers
- Data analysis through Python scripting for process automation

2021 - 2024 **Material Scientist at the European Synchrotron Radiation Facility**, Grenoble, France:

- Performed data analysis for large, multidimensional datasets. Python scripting for File I/O, data normalization, and visualization for workflow automation by using matplotlib, pandas, numpy and scipy libraries.
- Drafted bi-weekly technical/scientific reports and presented results through PowerPoint presentations
- Acquired excellent communication skills by actively engaging in an international and highly competitive environment.
- Developed strong deadline management skills for project meetings and result presentations.
- Gained excellent problem-solving abilities during experiments involving unexpected challenges and tight timelines.
- Built solid collaborative skills through active participation in international work environment, promoting professional relationships and enhancing teamwork capabilities.
- Independently managed projects, including data analysis and interpretation, resulting in the drafting of scientific articles as the first author, published in peer-reviewed journals.

2023 **Visiting Scientist at Umicore Battery Materials Oy**, Finland:

- Contributed to identifying effective solutions for studying materials produced by Umicore through X-ray diffraction, optimizing cost/time ratio.
- Collected, reorganized, and analyzed data, for weekly presentations at team meetings.

2020 - 2021 **Electrochemist at the Energy Conversion and Storage Group**, Aalto University, Helsinki, Finland:

- Gained strong independence for sample management, processing and testing up until project meetings deadlines
- Python programming language in Jupyter Environment for organizing and visualizing collected data

2020 **Course as CRM Cloud Solution Architect**, issued by ManPower Talent Solution, Italy:

- Introduction to Workbench MySQL / EER Diagrams / SQL queries
- Advanced OOP Java programming
- Customer relationship management (CRM) through *Salesforce* Platform

Languages

Italian **Native Speaker**

English **C1**

IELTS Academic, 24 Oct 2020, Cambridge Council Finland

French **B1/B2**

Lectures issued by ESRF in France

Skills

Hard Skills Data Analysis, Materials Engineering, Solid State Matter, Electrochemistry

Programming C++, Python, Jupyter Notebooks for Data Analysis, MySQL

Softwares MS Office Suite

Soft Skills Team Building, Presentation Competences, English Proficiency, Self Management, Problem Solving

Knowledge of

Electronics, Microcontrollers (Arduino, ESP8266, ESP32), Arduino IDE

About Me

[Google Scholar Profile](#), [ORCID](#) and [GitHub](#)