

# Carlo Maria Roggero

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## Personal Information

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| Address   | Via Ungheria 20, Collegno (To)   |
| Phone n°  | +393492977865  |
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| Birthdate | 29/05/1973   |

## Job History

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**R&D Manager** for Sea Marconi Technologies, a multinational Italian service company. Involved in studies within several sectors such as energy, environment, polymers, agriculture and pharmaceutical.

### *Key Responsibilities*

- Supervision of R&D personnel and activities,
- Development of new products and services,
- Installation of monitoring devices in industrial environments.

### *Key Projects:*

- Synthesis, development, and application of polymeric materials (PC, PU, Epoxy),
- Development of decontamination systems for organic pollutants in water, oil, and soil, based on chemical reagents enhanced by microwaves and ultrasounds,
- Development of analytical kits for the detection and quantification of organic pollutants in oils, water, and soil,
- Development and application of electronic devices for on-site and on-line monitoring of the operating conditions of electrical equipment (e.g. transformers), based on solid-state and optical sensors.

**Researcher** at the University of Missouri, performing syntheses of bio-based polyurethanes and chemical characterization of mineral oil via mass spectrometry.

**Laboratory Technician** for Sea Marconi Technologies.

Engaged in the physical and chemical analyses of dielectric fluids, industrial oils, water, soil, and polymers.

## Education

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1992-1997

**BSc in Chemistry**, at the University of Turin.

*Experimental thesis on the thermo-mechanical degradation of ultra-high molecular weight polypropylene for orthopaedic applications.*

2016-2019

**PhD in material science** at the Engineering School of Turin (Politecnico)

*Experimental thesis on the development of solid-state sensors to be applied in the online and on-site monitoring of electrical equipment.*

## Languages

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- *English*           CEFR: C1
- *Japanese*       CEFR: B1
- *German*           CEFR: A2

## Technical Skills

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Good command of the following techniques and tools:

- Chemistry lab instruments: FTIR, Gas Chromatography, Mass Spectrometry, TGA, Karl-Fischer,
- 3D Printer,
- Basic workshop equipment (column drill, angle grinder, band saw).

## IT Skills

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- Office Suit (Word, Excel, Power Point)
- Knowledge of programming in Python
- Data Analysis

## Other Information

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- Author of scientific papers and patents,