

# CARLO ANDREA MATTEI

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## EDUCATION

- 07/2021 PhD in Chemistry, Université de Rennes 1, France  
07/2017 Master of Science in Inorganic Chemistry, Università di Pisa, Italia  
07/2014 Bachelor of Science in Chemistry, Università di Pisa, Italia

### PhD thesis:

- Supervisors: Dr Fabrice Pointillart and Dr Claudia Lalli  
Title: Elaboration of coordination complexes combining properties of molecular magnets and chirality.

### Post-Master Internship:

- Supervisor: Prof. Kevin M. Ryan  
Research of interest: Three months post-master Erasmus programme in Limerick (IE) to study the preparation of colloidal nanocrystals.

### Master Thesis

- Supervisor: Prof. Luca Labella  
Title: Synthesis of mono-dimensional coordination polymers with two different metals regularly alternated and directed by a simple divergent ligand: N-oxyde-4,4'-bipyridine.

### Bachelor Thesis

- Supervisor: Prof. Luca Labella  
Title: Anchorage of terbium *N,N*-dialkylcarbamato complexes onto inorganic matrices and preparation of a ceria doped with terbium.

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## ACADEMIC WORK EXPERIENCE

- Università degli Studi di Firenze (IT)** 09/2022-present  
Postdoctoral researcher in the group of Dr Mauro Perfetti. The research work mainly focuses on the preparation and characterisation of lanthanide-based compounds.
- University of Manchester (UK)** 12/2021-08/2022  
Postdoctoral researcher in the group of Prof. David P. Mills. The research work concerned the preparation and characterisation of organometallic compounds.

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## SKILLS

**Languages:** Italian (native), English (fluent), French (intermediate).

**Scientific:** coordination (advanced) and organic (intermediate) chemistry, schlenk and glovebox techniques, spectroscopic (IR, NMR, UV/VIS, CD, luminescence, CPL, XRD and PXRD) and magnetic (SQUID and PPMS magnetometers) characterizations.

**Software:** Origin, MestreNova, Spectragryph, Diamond, Mercury, Chemdraw.

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## GRANTS

Erasmus Programme	2017
Bourse Ecole Doctorale Matière, Molécules et Matériaux	2020
Molspin COST Action	2020

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## CONGRESS

<i>Congrès SCF18, Montpellier, FRANCE</i>	02-04/07/2018
<i>Journées Scientifiques du GdR MCM2, Dourdan, FRANCE</i>	27-29/11/2018
<i>17th international conference on chiroptical spectroscopy, Pisa, ITALIA</i>	23-27/06/2019
<i>7th European Conference on Molecular Magnetism, Firenze, ITALIA</i>	15-18/09/2019