

CHIARA FERRARA

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Personal Data Born 11 February 1986
Nationality: Italian

**Presentation**

Physical chemist, good experience in synthesis of inorganic materials and excellent knowledge of solid state NMR, good mastery of structural analysis techniques and functional analysis methods. Good flexibility and capability in developing a project and participate in every parts and steps.

Education

- November 2010 - **Co-shared PhD in Physical Chemistry** ([Università degli Studi di Pavia](#), Italy and [Ecole Normale Supérieure de Lyon](#), France) “*Modern Solid State NMR techniques applied to the investigation of functional oxides*” under the care of Prof. Piercarlo Mustarelli (Università di Pavia, Italy) and Prof. Guido Pintacuda ([CRMN](#) ENS, France).
End in November 2013.
Installation and setup of the Solid State NMR laboratory in Dipartimento di Chimica in Pavia.
- June 2010: **Graduated with honours in Chemistry** (exams passed with full marks – 30/30 on the average) in Università di Pavia (Italy) with the thesis “*Perovskite-structure material for innovative applications for energy*” completed under the care of Prof. Piercarlo Mustarelli and Cristina Tealdi.
Join the Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (I.N.S.T.M.)
- July 2008: **Bachelor’s degree with honours in Chemistry** (first level), (exams passed with full marks – 30/30 on the average) in Università di Pavia (Italy). Thesis in Physical Chemistry: “*Proton conducting polymeric membranes for fuel cells- The role of the fillers*” under the care of Prof. Piercarlo Mustarelli.
- 2006- 2010: **Alumna at Collegio Santa Caterina da Siena in Pavia**. The institution [Collegio S. Caterina da Siena](#) is a highly qualified and well renowned University College. Admission is based on highly competitive open examination and annual reassessment based on merits.
- 2005: Graduated, (98/100) high School Liceo Scientifico Sperimentale T. Taramelli in Pavia (PV), Italy.

Educational activities

November 2010- : Spending different periods in the CRMN in Lyon, France thanks to the co-shared PhD project. CRMN is one of the world leading center in the field of NMR, under the direction of Lyndon Emsley it collects phd and post doc students from all over the world.

2013-: Attending the course “Soft Skills” (Prof. Bacchetta) proposed for the Ph.D. program in Physics. The course aim was improving the communication, organization and creativity skills considered as crucial in the science world.

2010 - : Tutor and seminar activities in laboratory and class for graduate courses in Chemistry at the Università di Pavia, Italy, private lessons in chemistry and physics for universitarian students.

Language Skills

Italian: Native

English: Excellent (Cambridge Preliminary English Test, PET) ; very good knowledge of technical, scientific (Chemical, Physical and Mathematical) english vocabulary.

Computing

Excellent use of softwares:

- Scientific database: Scifinder, Beilstein, Sigma Aldrich MSDS, ChemFinder.
- Diffraction data processing: FullProf, Diamond, PowderCell.
- Simulation and computation: GULP, DL_Poly, GDIS, VMD
- NMR: TopSpin, QuadFit, DMFit, WSolids
- Chemical representation: Chemdraw, Chems sketch, Sigmaplot

Excellent use of Windows, Office package, Internet tools.

Social and Organisational skills and competences

Great curiosity and open minded.

Flexible and excellent time keeping and organisational skills.

Good communication skills.

Other experiences

Access to ESRF (European Synchrotron Radiation Facility) in Grenoble, France.

Access to ILL (Institut Laue-Langevin) in Grenoble, France.

Access to FRM II (Forschungs Neutronenquelle Heinz Maier-Leibnitz) in Garching, Germany.

Organised a series of three lectures on Chemistry and Alchemy at Collegio S. Caterina da Siena which were open to public. Lecturers included Professors Giorgio Mellerio, Luigi Fabbrizzi and Chiara Crisciani.

Merit Scholarship Awards

- March 2011: Obtained a scholarship from the Embassy of France in Italy and the French institution Campus France to support the period of research in France due to the relevant interest of the PhD project in the field of energy.
- November 2010: Obtained a three-year scholarship for the phd passing the entrance examination to the phd with excellent results.
- September 2006: Gained the highest mark possible in the admissions exam to enter into Collegio S. Caterina and was offered a full scholarship for the duration of my degree in recognition of this achievement.

Hobbies

Rugby, player in the Pavia Rugby Femminile from the age of 14 years old.
Great interest for literature, gardening, travels.

Driving licence

Driving licence (B)

I authorise you to use the personal information contained herein for recruitment purposes.

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Conferences and schools

- 18-23 March 2013 Partecipation at the international NMR school of the Groupe d'Etude de Résonance Magnétique in Cargese, France. The school aim was presenting the state of art of different field of NMR (paramagnetic NMR, high resolution techniques, imaging, liquid and solid state NMR) with the participation of the main exponent from different part of the world and and stimulating presence of many students and professors.
- September 2012 Oral presentation for the annual evaluation of the phd project at the Università di Pavia, Italy.
- 9-13 July 2012 Oral presentation at the international symposium NMR Condensed Matter in Saint Petersburg, Russia. The international conferences was centered on very different aspects and different field of application of NMR (medical, bio-science, inorganic chemistry, material science)
- 24-29 June 2012 Attneding the internation summer school "New Concepts in Catalysis" at the University of Pavia
- March 2012 Public oral presentation for the annual evaluation of the phd project at the ENS, Lyon, France.
- Semptember 2011 Public oral presentation for the annual evaluation of the phd project at the Università di Pavia, Italy.
- July 2011 Partecipation to the Bruker advances formation coueses in Milano and Alessanria, Italia. Bruker is the leader in the production and development of NMR spectrometer and imaging instrument and tools.