

Curriculum Vitae of Federica Galli

General Information

Nationality: Italian

Birth: 20/02/1973, Genova (IT)

Spoken Languages: italian (mother language), english (fluent), dutch (basic), french (read).

Sex: female

Current occupation: PostDoc (research assistant) at the University of Leiden (NL), Physics



<p>1992</p>	<p>High School Degree at Liceo Scientifico L. Respighi (Piacenza) Won Scholarship at Collegio Ghislieri (University of Pavia, Italy)</p>	
<p>1997</p>	<p>Graduated in Physics (17 November 1997) at the University of Pavia, Italy</p>	<p>Experimental thesis on the subject: "Spin dynamics in hole doped 2D Heisenberg antiferromagnet: ^{63}Cu NQR studies on $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ (supervisor: Prof. A. Rigamonti) Publications: Eur. Phys. J. B, 10 , 233 (1999)</p>
<p>1998</p>	<p>1 year position payed by University of Parma (Italy), working at ISIS (Oxford, UK) (supervisor: Prof. C. Bucci)</p>	<p>Aim: contribute to the development of a Low Energy Muon facility at the European Spallation Source ISIS (England) Skills: ability of working in international environment; team work; short term project planning; Unix/Linux networking environment Related Activities: Travels to the European Facility ISIS (England) for Muon Spin Rotation experiments. NATO Summer School on Muon Science (St. Andrew, Scotland, 1998) Some Publications: Phys. Rev. Lett. 83, 4405 (1999) - Physica B, 289-290, 662 (2000), Physica B, 289-290, 684 (2000) -</p>
<p>January 1999- December 2002</p>	<p>4 year position to lead to PhD title in Physics (supervisor: Prof. J.A. Mydosh) at the University of Leiden (The Netherlands)</p>	<p>Aim: to obtain PhD title and write a thesis on experimental condensed matter subject: Collective Phenomena in intermetallic compounds. Skills: ability of working in international environment; team work</p>

		<p>and/or independent work; short and long term project planning, teaching to university undergraduate students; computer skills: work with scientific data analysis systems, word processors, LaTeX, Unix/Linux/Windows NT environment, Python scripting and basics of C++ programming.</p> <p>Related Activities: Travels to European measuring facilities like: HMI-Germany (Neutron Diffraction), ISIS-England (Inelastic Neutron Scattering), PSI-Switzerland (Muon Spin Rotation), DESY-Germany (x-ray diffraction), ESRF-France (x-ray diffraction).</p> <p>Conferences: SCES 1999 (poster), NVNV Meeting 2000 (invited talk), Veldhoven FOM Meeting 2000 (talk), Dutch-Polish Meeting 2002 (invited talk)</p> <p>Some Publications: Phys. Rev. Lett. 85, 158 (2000) - Phys. Rev. B 62, 13840 (2000) - Physica B, 276-278, 632 (2000) - Physica B, 281-282, 171 (2000)</p> <p>PhD Thesis: <i>Coexistence of Charge Density Waves and Magnetism in Intermetallic Compounds</i></p>
<p>January 2003- December 2005</p>	<p>PostDoc position in the Department of Physics of Leiden, Magnetic and Superconducting Materials (Prof. J. Aarts).</p>	<p>Aim: To design and build a Scanning Tunneling Microscope (hardware and control) for use at mKelvin temperatures and Ultra High Vacuum. To use the microscope to investigate the density of electronic states of superconductors and metals and S/F based devices.</p> <p>Skills: As above. Computer related: use of Python and Matlab for image processing and analysis. Use of CAD software like VariCad or ProEngineer for design.</p> <p>Related Activities: Supervision of undergraduate students leading to the thesis: "Preparation and Magnetic Measurements of NiFe (Ni 80%, Fe 20%) thin films", Gianluca Rago, Bachelor Thesis (2004), "Superconducting properties of Py/Al structures", Christianne Beekman, Master Thesis (2005)</p>
<p>January 2006-</p>	<p>Scanning Probe Technique Support Scientist in Physics Department of the University of Leiden.</p>	<p>Aim: To support and direct the development of new Scanning Probe Techniques (STM, AFM, CS-AFM etc) at low temperatures, UHV and high magnetic fields. To develop specialized expertise in the SPM techniques and assist user SPM common facility. To support undergraduate and graduate students in the measurements involving SPM techniques.</p> <p>Related Activities: Supervision of undergraduate students leading to the bachelor thesis : " The search for graphene" by Jan van Ostaay (2007). SPM/STS measurements on CMR oxide thin films.</p> <p>Publications: publications.pdf</p>