

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

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WORK EXPERIENCE

- Dates (from – to)
 - Since July 2021: full professor at the Department of Physics of the Politecnico di Milano.
 - Since September 2004: associate professor at the Department of Physics of the Politecnico di Milano.
 - September 1999-September 2004: permanent research position (“Ricercatore”) at the Department of Physics of the Politecnico di Milano.
 - June - September 1999: Patent examiner (in the field of telecommunication) at the European Patent Office in Munich (Germany).
 - December 1997-May 1999: Information Technology architect at IBM (Italy).
 - January 1997-November 1997: Postdoctoral contract at ESRF (Grenoble) on beamline ID12A (beamline responsible: Dr. José Goulon). Experiments of inelastic X-ray scattering. Construction of a crystal spectrometer for scattering experiments in the hard X-ray energy range.
 - November-December 1996: grant from Italian National Institute for Matter Physics (INFM).

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (from – to)
 - July 1997: PhD in Experimental Solid State Physics. Thesis: “Inelastic X-ray Scattering excited by Synchrotron Radiation” awarded by Politecnico di Torino joined to Politecnico di Milano.

November 1993-July 1997: Work towards Ph.D. in experimental Solid State Physics at Physics Department of the Politecnico di Milano. My supervisor was prof. Lucio Braicovich.

November 1993 - October 1994: construction, commissioning and tests of the Advanced X-ray emission spectrograph AXES at the Department of Physics at Politecnico di Milano.

November 1994 - December 1996: Experimental activity at ESRF soft X-ray beamline ID12B (local supervisor Dr. Nicholas B. Brookes).

July 1993: Laurea at the Politecnico di Milano (mark 100/100 'cum laude').

September-October 1993: grant from Italian National Institute for Matter Physics (INFN).

September 1992: *Diplôme d'ingénieur* at ENSTA (mark A/A).

September 1987-July 1993: Joint undergraduate studies in Electronic engineering at Politecnico di Milano and ENSTA (*Ecole Nationale Supérieure des Techniques Avancées*) in Paris. Master Thesis at the Physics Department of Politecnico di Milano in experimental spectroscopy of solids: "Problemi di spettroscopia di stati elettronici nei solidi: misure di fotoemissione inversa e strumentazione per fluorescenza", supervised by prof. Lucio Braicovich. One part of this work was presented as "Rapport de stage de fin d'études" at ENSTA: "Dessin d'un spectrographe à réseau avancé dans le domaine des rayons X-mous".

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
 - Title of qualification awarded
- Level in national classification (if appropriate)

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

Academic and scientific duties at Politecnico di Milano

1. Responsible for international exchange programs for students of Engineering Physics from 2001 (foundation year of Engineering Physics) until the end of year 2019.
2. Responsible for tutoring facilities for students of Engineering Physics in the years 2004 until 2006.
3. President of the Committee in charge of delivering the Bachelor and Master Degrees in Engineering Physics in the years 2006 until 2020, now vice-President of the same Committee ("Commissione di Laurea").
4. February 2003 to September 2006: Vice President of the User Organization Community of the ESRF.
5. Chairperson of the committee for the designation of the "ESRF Young Scientist Award 2009".
6. Since June 2011 coordinator of the CNISM (Consorzio Nazionale Interuniversitario per le Scienze Fisiche della Materia) Research Unit at Politecnico di Milano.
7. Since October 2012: Member of the referee committee of the "Materia" project evaluating the evolution of the project for the X-ray Thompson backscattering facility of Arcavacata di Rende (Cosenza, Italy).
8. Since October 2012 and until January 2015: Member of the CNR Committee coordinating the Italian research activities with X-rays and neutrons.

Teaching experience at Politecnico

Academic years 2000-2001 until 2003-2004: course of "Fisica Sperimentale A" (5 ECTS credits) given in the first semester of the first year of bachelor study of Bioengineering. The subject of the course is Mechanics.

Academic years 2000-2001 until 2002-2003: course of "Fisica Sperimentale 2" (10 ECTS credits) given in the second semester of the first year of bachelor study of Electronic Engineering. The subject of the course is Electromagnetism.

Academic years 2004-2005 until 2007-2008: course of "Fisica Sperimentale B+C" (10 ECTS credits) given in the second semester of the first year of bachelor study of Engineering Physics and Engineering Mathematics. The subjects of the course are Continuum Mechanics, Thermodynamics and Electromagnetism.

Academic years 2004-2005 until 2005-2006: exercises for the course of "Fisica dei Solidi" (10 ECTS credits) given in the first semester of the first year of master study of Engineering Physics.

Since academic year 2008-2009: course of "Fisica Sperimentale 1" (10 ECTS credits) given in the second semester of the first year of bachelor study of Engineering Physics. The subjects of the course are Mechanics, Continuum Mechanics and Thermodynamics.

Teaching experience outside Politecnico

October-November 2003: invited lectures for the "Cours de Troisième Cycle" at the Ecole Polytechnique Fédérale de Lausanne (EPFL) on "Resonant Spectroscopies with Synchrotron Radiation", for post-doctoral and senior researchers (3 lectures for a total of 9 hours).

MOTHER TONGUE

ITALIAN AND GERMAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

[English, French, Spanish]

[excellent, excellent, good]

[excellent, excellent, basic]

[excellent, excellent, basic]

ORGANISATIONAL SKILLS AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.

[Describe these competences and indicate where they were acquired.]

Throughout my working experiences I have coordinated the work of many people, including students and researchers. I have participated to the organization of conferences and obtained funds that I have contributed to manage. This is detailed here below, as well as the main honors I was awarded.

Organization of Conferences

1. Member of the Program Committee of the 2nd International Workshop on "Hard X-ray Photoelectron Spectroscopy" held at SPring-8 (Sayo, Hyogo, Japan) on 19-20 September, 2006.
2. Member of the Program Committee of the 6th International Conference on Inelastic X-ray Scattering (IXS2007) held from May 7 through 11, 2007 in Awaji, Japan.
3. Chairperson of the international conference on Inelastic X-ray Scattering IXS2010 held at ESRF (Grenoble, France) in Grenoble, 11-14 October 2010.
4. Organizer of the symposium on "Advanced experimental techniques for magnetic materials" at the international conference Joint European Magnetic Symposia JEMS2012 held in Parma, Italy, 9-14 September 2012.

Fundings

1. **May 2000**: holder of a research funding (15 k€) from INFM for the feasibility study of photoemission spectroscopy in the several keV energy range.
2. Responsible of the project **PRIN 2006**: "Disclosing the ultrafast electronic and spin dynamics in strongly correlated systems through femtosecond time-resolved photoemission, optical spectroscopies and magneto-optical Kerr effect". The project was funded for 54 k€ and lasted 2 years, from March 2007 until February 2009.
3. Responsible of the project "Dynamical characterization of novel materials for ultrafast devices" (Project number 2008-2470) financed by Fondazione Cariplo on the **2008** call for "Scientific and Technological Research on Advanced Materials", project number 2008-2470. The project was funded for 157 k€ and lasted from April 2009 to December 2012.
4. Responsible of the project "Magnetization Control by Means of Ultrafast

Optical Excitations in Materials for Fast Devices” (Project number 2011-0389) financed by Fondazione Cariplo on the **2011** call for "Scientific and Technological Research on Advanced Materials", project number 2008-2470. The project was funded for 150 k€ and lasted from May 2012 to September 2015. The project was in partnership with the CNR Milano unit (responsible Dr. Ettore Carpene).

5. Scientific responsible of the Interdepartmental Research Laboratory “UPhOS” (“Ultrafast Photoemission and Optical Spectroscopy”). The Laboratory was funded by Politecnico di Milano in January **2016** for a time duration of 3 years. The funding of 144.789 euro is devoted to the purchase of a hemispherical photoelectron analyzer for angle- and time-resolved photoemission experiments, initially on topological insulators and other systems both of applied and fundamental interest. The project is in collaboration with the DEIB Department of Politecnico, where prof. Daniele Ielmini will perform transport measurements on the same systems.
6. Responsible of the industrial consulting contract with “Società Gilardoni”, March **2015** until May **2016**. The project title is "Material recognition through X ray analysis by solid state detectors". The project cost was 30.000 euros.
7. Participant to project PRIN **2017**: “Tuning and understanding Quantum phases in 2D materials - Quantum2D”. The project was funded for 263.000 euros for the Research Unit of Milano Politecnico (the total funding of the project amounts to 1.2 Meuros). The project started in August 2018 and will last for 3.5 years.
8. Participant to project PRIN **2020**: “Quantum Transition-metal FLUOrides (QT-FLUO)”. The project was funded for 149.847 euros for the Research Unit of Milano Politecnico (the total funding of the project amounts to 902.053 keuros). The project started in March 2022 and will last for 3 years.

Honors

1. **May 1990**: Prize by the "Banca Popolare di Luino e Varese" (awarded to the 4 best students of the Politecnico).
2. **February 2003**: *ESRF Young Scientist Award*, yearly award given to one scientist younger than 35 for excellent results in the field of Synchrotron Radiation at ESRF. I was awarded the price for my results in the field of Resonant Inelastic X-ray Scattering and High-Energy Photoemission Spectroscopy obtained at ESRF.

TECHNICAL SKILLS
AND COMPETENCES
With computers, specific kinds of

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[SURNAME, other names]*

I have advanced competences in all software of common use on Personal Computers, as well as advanced competencies in computational, data analysis and data acquisition software (Matlab, Origin, LabView).

For more information go to
www.cedefop.eu.int/transparency/
europa.eu.int/comm/education/index_en.html
eurescv-search.com/

equipment, machinery, etc.