

- **Personal information**

Family name, First name: **Bardelli, Fabrizio**

Date and place of birth: 05/04/1973, Rome (Italy)

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Scopus: [11140217900](https://scopus.org/11140217900)



- **Education**

2006 PhD in Physics Ecole doctorale de Physique, Joseph Fourier University, France

2001 MSc in Physics Department of Physics, University of Roma Tre, Italy

- **Professional Experience**

- Present Marie Skłodowska-Curie fellow (Individual Fellowship) at CNR-Nanotec, Rome –Italy
- 2014 – 2015 Collaborator at Earth Science department (University of Torino, Italy) and at the Earth Science Institute (ISTerre, University of Grenoble Alpes, France) (24 months)
- 2011 – 2013 Postdoctoral researcher (27 months)
Joseph Fourier University, Grenoble – France
- 2010 – 2011 Postdoctoral researcher (12 months)
French council of scientific research (CNRS), Grenoble – France
- 2008 – 2010 Postdoctoral researcher (24 months)
Nanostructured Interfaces and Surfaces, Turin – Italy
- 2006 – 2008 Postdoctoral researcher (26 months)
Italian beamline at the ESRF, Grenoble – France
- 2003 – 2006 PhD student (36 months)
Ecole doctorale de Physique, Joseph Fourier University, Grenoble – France
- 2002 Postgraduate researcher (6 months)
Department of Physics, University of Roma Tre, Rome – Italy

- **Short stays at international research institutions**

- 2016 CNR-Nanotec, (STSM in the framework of the COST EU project), Italy (2 months)
- 2015 CNR-Nanotec, (STSM in the framework of the COST EU project), Italy (1 month)
- 2008 Instituto Balseiro, Centro Atomico de Bariloche, Argentina (1 month)

- **Supervision of graduate students and teaching activities**

- 2010 – 2013 Co-supervision of three PhD students at the Institut des Sciences de la Terre, Joseph Fourier University, Grenoble – France;
- 2007 – 2008 Practicals at the High European Research Course for Users of Large Experimental Systems – HERCULES, CNRS, Grenoble – France.

- **Publications**

47 journal articles in the fields of materials science, scientific software and instrumentation, health and environment, and cultural heritage + 6 peer-reviewed conference papers and proceedings.
h-index: 14 (source SCOPUS; publication range 2003 - today).

- **Patents**

Processes for producing conductive and/or piezoresistive traces on polymeric substrates, 2011, US Patent App. (US20130255997), 60, 2014-01-15.

- **Conferences, workshops, and schools**

16 international conferences, workshops, or schools (8 oral contributions, 1 invited talk), and 8 national conferences/workshops/schools (4 oral contributions).

- **Awards**

2003 – Winner of the “Carla Cauletti” student fellowship (University of Rome Tre)

- **Beamtime granted at large scale facilities**

40 experiments at the ILL (FR) and ISIS (UK) neutron sources, and at the ESRF (FR), Diamond (UK), SLS (SW), and ELETTRA (IT) synchrotron light sources.

- **Major collaborations**

- *United States*: L. Valenzano, environmental chemistry, Michigan Tech. University;
- *Argentina*: G. Aurelio, physicist, Centro Atómico de Bariloche;
- *Italy*: C. Lamberti, physical chemistry, University of Torino; E. Belluso, geologist, Univ. of Torino; P. Lattanzi, geochemist, University of Cagliari; P. Costagliola, geochemist, University of Florence;
- *Germany*: E. Eiche, environmental scientist, Karlsruhe Institute of Technology;
- *Switzerland*: L. Winkel, geochemist, ETH;
- *China*: M. Kang, environmental scientist, Guangzhou Institute of Geochemistry;
- *France*: A. Bravin, Medical imaging, ESRF; L. Charlet, geochemist, Univeristy of Grenoble Alpes;
- *India*: K. Dillon, environmental scientist, Punjab Agricultural University

- **Editorial activity and membership of scientific societies**

2014 – 2016 Editorial Board Member of the American Journal of Environmental Sciences

2012 – 2016 Member of the Geochemical Society, US

2003 – Today Member of the Società Italiana Luce di Sincrotrone (SILS), Italy.

- **Advanced investigations tools and computer skills**

- Micro and bulk Synchrotron Radiation X-ray Absorption Spectroscopy (XAS): theory, experimental, data analysis, and simulation of EXAFS and XANES data;
- Synchrotron micro x-ray fluorescence for element detection, quantification, and spatial distribution;
- Synchrotron radiation X-Ray Diffraction (XRD) and X-ray Pair Distribution Function (XPDF);
- Quasi Elastic Neutron Scattering (QENS);
- Developing language: FORTRAN;
- Developed software: ESTRA-FITEXA for XAS data analysis (doi:10.1016/j.nimb.2012.05.027);
- Scientific software: Origin, Fullprof, IFEFFIT, Fit2D, PDFgui, PyMCA, Lamp, Mantid, Materials Studio, Vesta, FEFF, XOP, FindIt, X'pert Highscore, Labview, Volview, ImageJ, Spec, Syrmep;
- Operating systems: Windows, Linux/Unix, MacOS.

- **Spoken languages**

Italian (mother tongue); English (proficient); French (proficient); Spanish (basic).