

CURRICULUM VITAE



PERSONAL DATA

Family name
Name

**Gramaccioni
Chiara**

EDUCATION

- Since 2016 Associated at CNR-Nanotec, c/o Dept. of Physics Univ. Sapienza, Roma, Italy
- Since 2013 PhD student in Physical Sciences and Technologies, Chemical and Materials Engineering, in agreement with the CNR at the University of Calabria, Arcavata di Rende, Cosenza, Italy.
Doctoral supervisors are Prof. Lagomarsino Stefano, *nanotech -CNR c/o University of Sapienza Rome*, and Prof. Roberto Bartolino, *Professor at University of Calabria*.
Combined use of X-ray Fluorescence Microscopy, Phase Contrast Imaging and Atomic Force Microscopy and Tomography for high-resolution quantitative Fe mapping in inflamed cells.
- May 2014 XII School on Neutron Scattering (SoNS) "Francesco Paolo Ricci" Erice. School Director Dr. Ian Anderson ORNL, US.
- 14-16 May 2014 "Introduction to the theory and techniques of neutron scattering and applications to Cultural Heritage".
- May-June 2014 Joint Meeting MP1203 & MP1207 COST actions: Coherent & Incoherent X-ray Imaging and Tomography; Rome.
- October- December 2014 Course of Micro-diffraction, nano-imaging and micro x-ray spectroscopy: principles and applications with the Prof. Stefano Lagomarsino at Sapienza University of Rome, evaluation of excellent.
- October- December 2014 Course of Optics with the Prof. Massimo Santarsiero at Roma Tre University, where I acquired the tools to deal with the phenomena of diffraction and propagation of light and I have learned the use of analytical and experimental techniques of drawing and manipulation of light radiation.
- January-June 2015 Course of Numerical computation and programming with Matlab, with the Prof. Maurizio Battaglia; at the Department of Earth Sciences- Sapienza University of Rome.
- November 2008 Course of Matter of Physics with the Prof. Enrico Silva at Roma Tre University, where I learned the knowledge of the electrons in periodic structures (metals, semiconductors), and have acquired the necessary tools to properly discussion of transport phenomena in solids.
- During 2009 and 2010 Degree in Civil Engineering at the University of Perugia in 2008 with 110/110 cum laude, at University of Perugia.
- Between 2010 and 2011 International Master's Architecture | History | Project, at Roma Tre University.
- Master's Degree in the field of the Consolidation and Restoration of Historical buildings and Monuments in seismic zones at University of Perugia.

PUBBLICATION

• 2017

Conference Series (JPCS), for the XRM2016 conference proceedings.

Gramaccioni et al., X-Ray Nanotomography and X-Ray microfluorescence for iron quantitative mapping in inflamed cells, to be submitted in Applied Physics Letters.

To be submitted Applied Physics Letters:

X-Ray Nanotomography and X-Ray microfluorescence for iron quantitative mapping in inflamed cells, Gramaccioni et al.

**ABSTRACT
AND CONFERENCE**

• 2014

Joint Meeting MP1203 & MP1207 COST actions: Coherent & Incoherent X-ray Imaging and Tomography

• 2014

Seminary: "Microscopia a Forza Atomica - Applicazioni biologiche"

Dr. Torsten Muller della Ditta JPK Instruments AG. Università Cattolica del Sacro Cuore Roma

• 28-29 May 2015

Poster presentation at the conference: BIOPHYSICS CNR, Area della Ricerca di Tor Vergata

ABSTRACT FOR THE CONFERENCE BIOPHYSICS AT ROME 2015

Quantitative high-resolution mapping of Fe concentration in inflamed cells, combining X-ray Fluorescence Microscopy, Phase Contrast Imaging and Atomic Force Microscopy

• 18 June 2015

Chiara Gramaccioni , Andrea Notargiacomo , Michela Fratini, Emil Malucelli, Stefano Iotti , Yang Yang, Peter Cloetens, Lorenzo Massimi, Stefano Lagomarsino, Francesca Berlutti

Seminary: "Synchrotron radiation: an extraordinary tool for the cutting edge biomedical imaging and therapy"

Dr. Alberto Bravin Università la Sapienza Roma

• 8-10 July 2015

Oral presentation at the conference: 23rd SILS Conference Trento

ABSTRACT FOR THE PRESENTATION AT SILS CONFERENCE AT TRENTO, July 2015

Combined use of X-ray Fluorescence Microscopy, Phase Contrast Imaging and Atomic Force Microscopy for high resolution quantitative Fe mapping in inflamed cells

Chiara Gramaccioni , Andrea Notargiacomo , Michela Fratini, Emil Malucelli, Stefano Iotti , Yang Yang, Peter Cloetens, Lorenzo Massimi, Piera Valenti , Stefano Lagomarsino, Francesca Berlutt and Piera Valenti.

• 4-10 October 2015

COST MP1207: Tomographic image reconstruction by Holo-Tomography, of whole mammalian cell using synchrotron-based hard X-Ray". ESRF beamline ID16-A

Gramaccioni et al. Combined use of x-ray fluorescence microscopy, phase contrast imaging for high resolution quantitative iron mapping in inflamed cells, impressed in Journal of Physics:

• 16-17 November 2015

ACCADEMIA NAZIONALE DEI LINCEI FONDAZIONE «GUIDO DONEGANI»
International Conference SEEING MOLECULES LE MICROSCOPIE PER LE SCIENZE
MOLECOLARI ROMA - PALAZZO CORSINI - VIA DELLA LUNGARA, 10
Organizing committee : M. Brunori, D. Gatteschi, M. Mannini, V. Schettino, R.
Sessoli, G. Zerbi

• 8 - 10 February 2016

Partecipazione at ESRF USER MEETING 2016

• 4 February 2016 to 25 March 2016

COST MP1207: Nanotomography and X-Ray Fluorescence microscopy of frozen
hydrated cells. ESRF beamline ID16-A

• 11 -12 April 2016

Oral presentation at the conference:
Meeting WG3: X-ray coherent and incoherent imaging diagnostics on Advanced X-ray
metrology for theranostic Amsterdam.

• 1 June 2016 to 31 July 2016

COST MP1207: Continuation of the Tomographic study of frozen hydrated cells.
ESRF beamline ID16-A

• 15-19 August 2016

Flash talk and poster presentation at the international conference X-Ray Microscopy
XRM2016 OXFORD:
"Combined use of X-Ray Fluorescence Microscopy, Phase Contrast Imaging and
Nanotomography for high resolution quantitative Fe mapping in inflamed cells"

• 4--8 September 2016

Oral presentation at the conference: XTOP 2016 – 13th Biennial Conference on
High-Resolution X-Ray Diffraction and Imaging –Brno, Czech Republic

• 19-21 September 2016

Oral presentation at the conference: COST Action: MP1203 MC meeting co-located
with X-ray optic metrology meeting Athens Greece

• 21-23 September 2016

Oral presentation at the conference: SILS 2016 Conference Bari:
"Combined use of X-Ray Fluorescence Microscopy, Phase Contrast Imaging and
Nanotomography for high resolution quantitative Fe mapping in inflamed cells

• 7-9 November 2016

Oral presentation International Workshop on Process and Biomedical Tomography
Warsaw.

• 11 November 2016 to 17 January
2017

COST MP1207: Nanotomography and X-Ray Fluorescence microscopy of frozen
hydrated cells. ESRF beamline ID16-A

• 6-8 February 2017

Oral presentation Microsymposium 2 (UDM2) ESRF user meeting 2017 Quantitative
coherent X-ray diffraction imaging

• 10 March 2017

Oral presentation during the Seminar: Synchrotron radiation for Life Sciences and
Biology Quantitative coherent X-ray diffraction imaging. Department of Public Health
and Infectious Diseases at La Sapienza University of Rome.

Updated April 2017

I authorize the use of my personal data under D. Lgs. n. 196/2003 D. Lgs.
33/2013 and its subsequent amendments and additions

Gramaccioni Chiara

