

CURRICULUM VITAE

FORMATO EUROPEO/EUROPEAN FORMAT

INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Name, Surname	Francesco d'Acapito
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Sito web/Website	http://www.cnr.it/people/francesco.dacapito
Nationality	Italian
Place and Date of birth	Roma May 27 th 1966

ESPERIENZA PROFESSIONALE /WORK EXPERIENCE

Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	N. MATRICOLA 27197 QUALIFICA RICERCATORE (PERMANENT POSITION) LIVELLO II Jan 2017-Present Consiglio Nazionale delle Ricerche Project Responsible <i>Responsible of the LISA project (DFM.AD006.072)</i>
Main activities and responsibilities	Coordinator of the financial, technical and scientific activities of the LISA project.
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector	n. matricola 27197 qualifica Ricercatore (permanent position) livello II Mar 2016 Consiglio Nazionale delle Ricerche Declared eligible (Idoneo) at the selection N° CNR.364.172 for a Research Director position (Dirigente di ricerca).
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector	n. matricola 27197 qualifica Ricercatore (permanent position) livello II Jan 2015 Consiglio Nazionale delle Ricerche Appointed Responsible of the LISA CRG in the operation contract of LISA with ESRF.
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	N. MATRICOLA 27197 QUALIFICA RICERCATORE (PERMANENT POSITION) LIVELLO II Jan 2011-Present Consiglio Nazionale delle Ricerche Participation to Executive Board Appointerd Member of the Italian delegation at the European Synchrotron Radiation Facility (ESRF) Administrative and Finance Committee and Purchase Advisor.

Main activities and responsibilities	Member of the Administrative Finance Committee (AFC), Member of the Purchase Advisor committee, Advisor for the Members of the ESRF Council.
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	n. matricola 27197 qualifica Ricercatore (permanent position) livello II Oct 2010 Consiglio Nazionale delle Ricerche - Declared eligible (Idoneo) at the selection N° CNR.364.86 for a Research Director position (Dirigente di ricerca).
Main activities and responsibilities	-
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector	n. matricola 27197 qualifica Ricercatore (permanent position) livello II Jan 2010 Consiglio Nazionale delle Ricerche Appointed responsible of the GILDA CRG in the operation contract of GILDA with ESRF.
Se dipendente CNR indicare: In ordine di data /Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	N. MATRICOLA 27197 QUALIFICA RICERCATORE (PERMANENT POSITION) LIVELLO II Jan 2006-Present Consiglio Nazionale delle Ricerche Responsible of operative Group Appointee responsible of the Operative Group in Grenoble (OGG) (Jan-2006 Oct-2008) and (Mar-2010 present) in the IOM institute
Main activities and responsibilities	Responsible of the OGG operative group.
Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	INFM QUALIFICA RICERCATORE (PERMANENT POSITION) LIVELLO II Feb 2004 Istituto Nazionale per la Fisica della Materia Synchrotron Radiation Research Winner of the selection INFM-688-2002 for a position of Senior researcher (Primo ricercatore , II livello).
Main activities and responsibilities	Coordination of the scientific and technical staff of the GILDA beamline Coordination of the scientific activity of the GILDA beamline
Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	INFM RICERCATORE (PERMANENT POSITION) LIVELLO III Sept-1998-Feb 2004 Istituto Nazionale per la Fisica della Materia Synchrotron Radiation Research First scientist of the GILDA beamline
Main activities and responsibilities	Scientific staff of the GILDA beamline Coordination of the scientific activity of the GILDA beamline
Se dipendente CNR indicare: Dates (from – to) Name and address of employer Type of business or sector Occupation or position held	N. MATRICOLA 00971 QUALIFICA TECNOLOGO (FIXED TERM POSITION) LIVELLO III Sept-1995-Sept 1998 Consiglio Nazionale delle Ricerche Synchrotron Radiation Research GILDA beamline staff
Main activities and responsibilities	Running the beamline
Se dipendente CNR indicare: Dates (from – to) Name and address of employer	QUALIFICA DOCTORATE STUDENT (CNR FELLOSHIP) Nov 1993-Sept 1995 Istituto Nazionale di fisica della materia

Type of business or sector	Synchrotron Radiation Research
Occupation or position held	GILDA beamline staff
Main activities and responsibilities	Assembling and commissioning of the beamline

ISTRUZIONE E FORMAZIONE / EDUCATION AND TRAINING

Dates (from – to)	May - 2005
Name and type of organisation providing education and training	Universite' Joseph Fourier
Principal subjects occupational skills covered	X-ray Absorption Spectroscopy, applications to semiconductor technology
Title of qualification awarded	DHDR, Diplôme d'Habilitation à diriger des Recherches (Habilitation to direct Research activities)
Level in National classification	-
In ordine di data /Dates (from – to)	July - 1997
Name and type of organisation providing education and training	Université Joseph Fourier
Principal subjects occupational skills covered	X-ray Absorption Spectroscopy, x-ray small angle scattering, applications to metal doped glasses
Title of qualification awarded	Doctorat
Level in National classification	Très honorable avec félicitations du Jury
In ordine di data /Dates (from – to)	Jan - 1992
Name and type of organisation providing education and training	Università "La Sapienza" Roma
Principal subjects occupational skills covered	Time resolved X-ray Absorption Spectroscopy, applications to metallic glasses
Title of qualification awarded	Degree
Level in National classification	110/110 <i>cum laude</i>

ATTIVITA' DI RICERCA / RESEARCH ACTIVITIES

Research sectors	Synchrotron Radiation instrumentation, Materials Science, Ab-initio Structural Modeling, Management.
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Recent Activities.

The activity of dr F. d'Acapito can be divided in different fields:

- **Development of instrumentation** and experimental methods in the field of synchrotron radiation.
- **Structural studies** of advanced materials using X-ray Absorption Spectroscopy (XAS) coupled to *ab-initio* studies.
- **Management** of scientific structures and participation to management boards of large scale facilities.
- **Didactic activity and tutoring**

Development of instrumentation F. d'Acapito is active since the beginning of his scientific career in the development of synchrotron radiation instrumentation. He has participated to the installation of the GILDA beamline at ESRF and he has coordinated its activity as local responsible from 1997 to the end of the project (2014). In 2012 he was member of the committee of the Italian Society for Synchrotron Radiation (SILS) reviewing the proposed synchrotron radiation activities at the super B ring and of the panel reviewing the SAMBA beamline at SOLEIL. Recently he has conceived and designed the evolution of GILDA, the LISA project and he is currently coordinating its realization. He is specialized in surface analysis techniques based on X-ray total external reflection. Within the GILDA project he has realized and operated a peculiar instrument for XAS experiments in total reflection (the Refl-Exafs outstation) and he has developed an original analysis code for the analysis of the related XAS data incidence mode (CARD code). He has a solid international reputation in the field as he is the author of book chapters about this technique. Recently he has contributed to develop a method for electrochemistry to follow the Voltammetric cycles in cells with X-rays (FEXRAV technique). As a consequence of his participation to projects focused on time resolved studies (PIK-2012 EXPROREL, PRIN 2016 NEWLI) he is presently developing a stroboscopic time-resolved XAS methodology for the investigation of light-sensitive materials and processes.

Structural studies He is been active as a XAS expert in several fields with particular attention to the semiconducting and insulating materials in collaboration with several international (CEA-LETI -Grenoble, Kepler Univ.-Linz, Demokritos Institute -Athens, Polish Academy of Sciences, -Warszaw, ICFO -Barcelona, IST, Lisboa) and national (Dip Fisica Univ Bologna, Dip Chimica Univ. Milano, Dip Chimica Univ Pavia, CNR-ISM, CNR-ICCOM) institutions. He has studied the incorporation site of magnetic dopants in different matrices (bulk GaAs, GaN, GaAs nanowires, PbS nanodots, Silica) and the structure of advanced materials for (opto-)electronics (Germanene, GeTe-based phase change materials, chalcogenides for Nonvolatile Memories, optic fibers). In particular these studies have permitted to understand the relationship between local structure (local symmetry around dopants, ligands, valence state) and macroscopic properties (optical absorption/emission, electrical activation, ferromagnetism, ..). He has developed expertise in *ab-initio* structural modelling for the interpretation of the experimental data. Using Density Functional Theory (DFT) and DFT-based Molecular Dynamics (MD) he has developed a procedure for the full *ab-initio* simulation of XAS data. In this way it was possible to solve problems of determination of the local site of dopants in complex structures. He has a solid international reputation as a XAS and semiconductors expert and he is author of several book chapters and invited papers/conference talks on these topics. He has frequently exploited his expertise also in different fields like chemistry, environmental science (participation to PRIN 2010-2011 2010MKHT9B_007 "Minerals-biosphere interaction: environmental and health consequences") and cultural heritage. He acts as referee for journals of several editors (American Institute of Physics, American Chemical Society, Nature group, Elsevier, ...).

Management. Since 1997 he is the local coordinator of the GILDA beamline and since 2009 he has been appointed as project responsible on the operation contracts with ESRF of GILDA and LISA. At present he is responsible of the LISA project at CNR (N DFM.AD006.072, Budget 1.0 M€). For this activity his tasks are the coordination of the technical and scientific activity of the beamline, manage the funding and reporting to the governing bodies (CNR and ESRF). Since Jan 2006 he is the responsible of the Operative Group in Grenoble of the INFM first and of the IOM institute later. In this case the tasks are the responsibility of the personnel activity and the supervision of administrative acts (occupational and personal health, purchases, contracts...) in an international environment. Since Jan 2011 he is member of the Italian delegation to the ESRF management boards, in particular as member of the Administrative and Finance Committee (AFC), as Purchase Advisor and advisor of the Council Delegation. His tasks are reviewing the ESRF accounts and financial operations, promote the participation of Italian industries to ESRF Calls For Tender and advise the Italian council members about the different issues discussed in the meetings. A relevant result of this activity has been the considerable increment of the participation of Italian companies to ESRF calls, raising the return level of Italy (i.e. ratio between

the share of purchase value of Italian companies and the share of contributions of Italy to ESRF) from 40% in 2011 to above 80% in 2016.

Didactic activity and tutoring He participates as lecturer since 1993 at the HERCULES school in Grenoble and he has been tutor of several Master and PhD students having carried out their activity at the beamline. Being HDR, he has been member of jury committees of PhD theses of French academic institutions.

ADDITIONAL INFORMATION

Languages: Italian (mother tongue) French fluent (written, spoken, read), English fluent (written, spoken, read).

Publications: 203 entries in the ISI database, h-index 28 (Feb 2017).

**TRATTAMENTO DEI DATI
PERSONALI, INFORMATIVA E
CONSENSO**

Il D.Lgs. 30/6/2003, n. 196 "*Codice in materia di protezione dei dati personali*" regola il trattamento dei dati personali, con particolare riferimento alla riservatezza, all'identità personale e al diritto di protezione dei dati personali; l'interessato deve essere previamente informato del trattamento .

La norma in considerazione intende come "trattamento" qualunque operazione o complesso di operazioni concernenti la raccolta, la registrazione, l'organizzazione, la conservazione, la consultazione, l'elaborazione, la modifica, la selezione, l'estrazione, il raffronto, l'utilizzo, l'interconnessione, il blocco, la comunicazione, la diffusione, la cancellazione e la distruzione di dati, anche se non registrati in una banca dati.

In relazione a quanto riportato, autorizzo il CNR al trattamento dei dati contenuti nel presente *curriculum vitae* e nella documentazione della quale fa parte integrante

(*barrare la casella*)

Si, acconsento