

PERSONAL INFORMATION

Enrico De Filippo

📍 INFN (Istituto Nazionale Fisica Nucleare) sez. Catania, via S. Sofia 64, 95123 Catania,



✉ e-mail: defilippo@ct.infn.it

🔗 Orcid: <https://orcid.org/0000-0001-9069-0305>

Nationality: Italian

WORK EXPERIENCE

from 2007 up to now

First Researcher (Senior Scientist) at INFN Catania, Italy.

- Currently, member of the international collaborations CHI-NEXT (INFN) and Nustar/R₃B (GSI/FAIR, Germany).
- Currently, responsible of DAQ for the CHI-NEXT collaboration
- Member of Scientific Committee of Fata 2025 Workshop 8-10 October 2025
- Responsible of DAQ for the CHIRONE collaboration (2020-2025)
- Member of Samotrace framework PNRR WP4 (Micro detectors for particle therapy, dosimetry and micro-dosimetry) 2023-2025).
- Spokeperson and co-spokeperson of several experiments at LNS and other laboratories
- Member of Scientific Committee of IWM2021 (GANIL), France
- Member of Scientific Committee of Fata 2019 Workshop 3-5 September 2019
- Italian Spokeperson of the Italy-Poland collaboration POLITA for budget at LNS during years 2016-17 and 2017-18
- Member of Scientific Committee of "High intensity beams at LNS" 14-15 /12/2015
- National responsibility of EXOCHIM experiment from 2008 to 2013
- Member of Scientific Committee of IWM2011 (GANIL), France
- Member of Scientific Committee of IWM2007 (GANIL), France
- Referee of "Computing for experimental nuclear physics" of 3th INFN commission from 2007 to 2012
- From 2013 to 2016 Coordinator of LNS User committee
- From 2009 to 2014 member of GUB (GANIL User Board)

from 1/1999 to 2006

Researcher Level III at INFN Catania, Italy.

- Coordinator of data analysis for the Reverse international collaboration from 2000 to 2007

from 10/1995 to 12/1998

Contract as full-time Researcher (fixed term duration) at INFN Catania, Italy.

from 3/1995 to 9/1995

Research contract at IN2P3-CNRS at GANIL (France).

from 11/1994 to 2/1995

Research contract at CEA-DAPNIA/SPn, Saclay (France).

- Member of the INDRA collaboration (France)

Brief summary of the Main Research Activities

My research activity has been developed in the field of experimental nuclear physics at low and intermediate energies, mainly devoted to nuclear dynamics and reaction mechanisms and nuclear fission studies. I have worked at Laboratori Nazionali del Sud LNS (Italy), Saclay (France), Ganil (France), GSI (Germany), HIL Warsaw (Poland). My current activity is principally related with research using the CHIMERA 4 π detector at LNS with stable and radioactive beams and experimental activity at GSI/FAIR.

I have been member of the founding group having in charge the construction of the innovative second generation 4 π multi-detector CHIMERA by assuming the responsibility for the design of an innovative data acquisition system (DAQ) and on-line controls. I have also contributed on both particle detection techniques and new instruments design for the experiments. I have supported with different levels of responsibility the physics research program for the INFN experiments REVERSE (1999-2000), ISOSPIN (2003-2006), EXOCHIM (2007-2013), NEWCHIM (2013-2020) and CHIRONE (2021-2025) and CHI-Next (on going). In particular, I was National Spokeperson for the scientific coordination and budgeted management of the EXOCHIM project (supported by the INFN-CN3, Nuclear Physics board) during the years 2008-2013.

I have given original contributions in the data analysis of the mentioned experiments in all the

campaigns of experiments. I have contributed to the construction and design of a new silicon-strips based ancillary device, FARCOS (Femtoscope Array for Correlations and Spectroscopy) and I am involved in the development of a new detector array, **sensitive** to both neutrons and light charged particle detection. I have driven the transition to a common digital acquisition (DAQ) for FARCOS and CHIMERA and actually I am responsible for data acquisition and slow control in CHIRONE and CHI-NEXT project. As a member of the Samotrace framework WP4 (PNRR), I have contributed to development and studies on a SiC array for beam monitoring and medical applications.

In my scientific research I have mainly contributed in the studies of reactions mechanisms and particles and fragments formation in the dynamics of nuclear reactions at Fermi energies. I have contributed to an innovative data analysis method in order to measure the time-scale of fragment formations in semi-peripheral ternary events. I have studied, as an interdisciplinary research that is a bridge between atomic and nuclear physics, the ionization processes and emission of swift electrons in atomic collisions induced by heavy ions with experiments at LNS, GANIL (France) and GSI (Germany).

My principal research interest is at the present in the study of the Equation Of State (EOS) of the asymmetric nuclear matter as a function of barionic density by using heavy ion reactions with stable and radioactive beams at INFN-LNS (Catania) and GSI (Darmstadt) laboratories. I am member of the international collaborations CHI-NEXT (INFN/gr. III) and Nustar/R₃B (GSI/FAIR, Germany).

EDUCATION AND TRAINING

from 9/1993 to 10/1994 Post-doctoral fellowship at CEA, DAPNIA-SPhN Saclay, Gif-sur-Yvette (FRANCE)
 from 6/1993 to 9/1993 Post-doctoral fellowship at CSFNSM, University of Catania (Italy)
 from 3/1992 to 3/1993 Post-doctoral fellowship at INFN sez. Catania (Italy)
 1989-1992 Ph. Doctor in Physics, University of Catania (Italy)

12/1987

- *Ph.D. thesis: "Study of ⁴⁰Ar+²⁷Al reaction at 58 MeV/A by means of a BaF₂ scintillation crystals multidetector.*

 Master's degree in Physics (110/110 cum laude) University of Catania.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)
self-estimated levels

	Understanding		Speaking		Writing
	listening	reading	Spoken interaction	Spoken production	
English	B2	C2	C1	C1	C2
French	C2	C2	C2	C1	B1

Job-related skills Peer reviewer of Nuclear Instruments and Methods A, European Phys. Journal A, Nuclear Physics A. From 2017 "Outstanding contributor of NIM-A" for peer-reviewing activity.
 Lecturer in "Heavy ion Physics" courses at University of Catania
 I have presented more than 25 invited talks in International Conferences and a total of about 70 talks and seminars during my career

Digital skills Design of data acquisition systems, "real-time" processes and software developments for nuclear physics experiments. Readout digitalization. Expertise in concurrent programming and Linux OS system administration. Programming in C/C++, advanced C++17 and STL, Fortran, scripting languages, ROOT.

Statistics on publications: 381 (source: elsevier/scopus 2025)
 h-index: 39 (see publications in Orcid: <https://orcid.org/0000-0001-9069-0305>)

37 Physical Review C,	24 Nuclear Instruments and Methods A,
22 Nuclear Physics A,	20 Acta Phys. Polonica B,
17 IEEE Trans. on Nucl. Science	12 Physics Letters B,
12 Physical Review A,	9 European Phys. Journal A (EPJA),
8 Int. Jour. Mod. Physics E (IJMPE),	8 Nuclear Instruments and Methods B,
7 Physical Review Letters,	5 Physica Scripta,
4 European Phys. Journal Plus	4 Frontiers in Physics
2 Zeitschrift für Physics,	2 Nuovo Cimento A,
2 Rivista del Nuovo Cimento	1 Nature,
1 Computer Phys. Communication,	1 Journal of Physics B,
1 Microprocessors and Microsystems	1 Physics of Atomic Nuclei
1 Radiation Effects and Defects in Solids	1 Symmetry
47 Nuovo Cimento C	
132 Proceedings, others	

A Selections of publications

- “An asymmetric fission island driven by shell effects in light fragments”, *Nature*, 641(8062), pp. 339–344 (2025).
- “Studies of the equation-of-state of nuclear matter by heavy-ion collisions at intermediate energy in the multi-messenger era: A review focused on GSI results” *Rivista del Nuovo Cimento* 46, 1 (2023)
- “Dynamical versus statistical production of Intermediate Mass Fragments at Fermi Energies” *Eur. Phys. Journ. A* 56, 12 (2020)
- “First measurement of the isoscalar excitation above the neutron emission threshold of the Pygmy Dipole Resonance in ^{68}Ni ” *Physics Letters B* 782, 112–116 (2018)
- “GET: A generic electronic system for TPCs and nuclear physics instrumentation”, *Nucl. Instr. Meth. A* 887, 81 (2018)
- “Results of the ASY-EOS experiment at GSI: The symmetry energy at suprasaturation density” *Physical Review C* 94 (2016), 034608
- “Probing clustering in excited alpha-conjugate nuclei” *Phys. Lett. B* 755 475 (2016)
- “Production cross sections for intermediate mass fragments from dynamical and statistical decay of projectile-like fragments in $^{124}\text{Sn} + ^{64}\text{Ni}$ and $^{112}\text{Sn} + ^{58}\text{Ni}$ collisions at 35 A MeV” *Physical Review C* 91 (2015), 014610
- “Experimental effects of dynamics and thermodynamics in nuclear reactions on the symmetry energy as seen by the CHIMERA 4π detector” *European Phys. Journ. A* 50 (2014)
- “Correlations between emission timescale of fragments and isospin dynamics in $^{124}\text{Sn}+^{64}\text{Ni}$ and $^{112}\text{Sn} + ^{58}\text{Ni}$ reactions at 35A MeV” *Physical Review C* 86 (2012), 014610
- “Isospin Dependence of Incomplete Fusion Reactions at 25 MeV/Nucleon” *Physical Review Letters* 102 (2009), 112701
- “Three-electron Auger process from beam-foil excited multiply charged ions” *Physical Review Letters* 100 (2008), 233202
- “Time sequence and time scale of intermediate mass fragment emission” *Physical Review C* 71 (2005), 044602

Catania, 26/09/2025

Dr. Enrico De Filippo
 INFN Catania

CURRICULUM VITAE

Paola La Rocca is an associate professor in Experimental Physics at the Department of Physics and Astronomy of the University of Catania.

EDUCATION

- 10/2006 – 10/2009: PhD in Physics at the University of Catania (Thesis: “*Jet Physics in ALICE: construction and commissioning of the Electromagnetic Calorimeter*”)
- 10/2004 – 10/2006: Master degree in Nuclear and Subnuclear Physics at the University of Catania, final grade 110/110 cum laude (Thesis: “*Il progetto Extreme Energy Events: un network esteso per la rivelazione dei raggi cosmici*”)
- 10/2001 – 09/2004: Bachelor degree in Physics at the University of Catania, final grade 110/110 cum laude (Thesis: “*Uno studio degli effetti barometrici sul flusso dei raggi cosmici al livello del mare*”)

EMPLOYMENT:

- 12/2019 – present: Associate Professor in Experimental Physics at the Department of Physics and Astronomy of the University of Catania
- 12/2014 – 11/2019: Researcher in Experimental Physics at the Department of Physics and Astronomy of the University of Catania
- 11/2012 – 11/2014: Post-doc position at the Department of Physics and Astronomy of the University of Catania within the Project “*Muon Portal*”
- 11/2009 – 10/2012: Post-doc Grant at the Museo Storico della Fisica e Centro Studi e Ricerche “*E.Fermi*” (in Rome) within the Project “*Extreme Energy Events*”

ORGANIZATION AND INSTITUTIONAL ACTIVITIES

- 01/2025 – ALICE ITS INFN coordinator
- 04/2024 - present: Vice-president of the Bachelor degree course in Physics
- 01/2024 - present: Member of the Group for the Quality Assurance of the PhD in Physics
- 06/2023 - present: Referent teacher for the Nuclear and Particle Physics curriculum in the PhD Program in Physics
- 11/2019 - present: Delegate of the Director of the Department of Physics and Astronomy “*Ettore Majorana*” for the Department Quality
- 01/2018 – 12/2024: INFN local responsible of the ALICE group in Catania
- 2018- 2025: Co-editor of the “*Europhysics Letters*” (EPL) journal
- Referee for several international scientific journals (NIM A, NIM B, Nature scientific reports, Optical Engineering, Annals of Nuclear Energy)
- Member of the organizing committee of some international workshops and conferences (WPCF-Reso2023, Quark Matter 2017, Resonance Workshop at Catania 2014, WISH 2010)

- She is also involved in several outreach activities addressed to school and university students, concerning cosmic rays (within the EEE project) and, more in general, basic physics topics.

RESEARCH ACTIVITY

She has carried out research in experimental Physics since 2006. Her principal research interests concern high energy nuclear physics, cosmic rays and their applications. She is author of more than 500 scientific papers published in international physics journals and of about 35 contributions (talks and poster) in national and international conferences.

- High energy nuclear physics

She is currently involved in research carried out at CERN in the domain of ultra-relativistic heavy ion collisions, joining the ALICE Collaboration at LHC (a large multipurpose detector for the study of heavy ion collisions at the highest available energies). Within such project, she has taken part to many experimental activities, for the construction, commissioning, data analysis and then for the upgrade phase of this large facility.

Within this research field, she acted as co-supervisor for many degree theses.

- Cosmic rays and applications

She carries out many outreach experimental activities, devoted to the construction of low-cost cosmic ray detectors and realization of educational measurements. Since 2005 she is part of the Extreme Energy Events (EEE) Project, that aims at the construction and installation of a sparse array of MRPC cosmic ray telescopes in Italian schools. She is currently in charge of the telescopes installed and operative in Sicily.

She is also involved in applications of cosmic ray radiation, collaborating to research activities that employ the muon tomography technique as a tool of investigation of hidden structures.

TEACHING ACTIVITY

Over the years her teaching activities included lectures on Applied Physics for students in Orthoptics (2013-2020), Applied Physics for students in Techniques of Cardio-circulatory Physiopathology (2013), Absolute Dating Methods for students in Geophysics (2016-2024), Experimental Methods for Nuclear Physics (2024-present). She also teaches in the course of Physics Laboratory for 3rd year physics students (2009-present).

As a part of her teaching activity she has acted as co-supervisor for many bachelor degree, master degree and PhD theses in nuclear and general Physics.

Catania, 26th September 2025

Paola La Rocca

PERSONAL INFORMATION

Salvatore Monforte

✉ salvatore.monforte@ct.infn.it

WORK EXPERIENCE

- 2025 - **Tecnologist – professional level II**
National Institute for Nuclear Physics, Catania (Italy)
- 2004 - 2024 **Tecnologist – professional level III**
National Institute for Nuclear Physics, Catania (Italy)
- 10/2003 – 04/2004 **IT consultant for software development**
on behalf of Ele.Mag at ATM Metropolitana, Milano (Italy)
- 2000 - 2003 **IT consultant for software development**
National Institute for Nuclear Physics, Catania (Italy)

EDUCATION AND TRAINING

- 1999 - 2002 **PhD in Electronic Engineering, Computer Science and Telecommunications**
University of Palermo (Italy)
- 1991 - 1998 **Doctor in Computer Science**
University of Catania (Italy)

ACADEMY AND RESEARCH

Experiments and Projects

- 2023 - today **PNRR ICSC Project**
Centro Nazionale HPC, Big Data e Quantum Computing
- PNRR TERABIT Project**
Network for Research and Academic Big data in Italy
- 2019 – 2023 **PON IBISCO Project**
Infrastructure for Big data and Scientific COmputing
- 2018 – 2020 **PON RECAS Project**
PON Ricerca e Competitività 2007-2013, Avviso 254/Ric
- 2015-2018 **INDIGO DATA CLOUD Project**
Open-source data and computing platform targeted at scientific communities
- 2012 - 2015 **ALICE Experiment**
Experiment at LHC at CERN
- 2010 - 2012 **European Middleware Initiative Project**
WMS gLite – area JRA1 and SA1
- 2008 - 2010 **Enabling Grids for E-science III Project**
WMS gLite middleware – area JRA1
- 2006 - 2008 **Enabling Grids for E-science II Project**
WMS gLite middleware – area JRA1
- 2004 - 2006 **Enabling Grids for E-science Project**
WMS gLite middleware – area JRA1
- 2000 - 2003 **DATA-Grid and INFN-Grid Projects**
WP1 - Workload Management

Main Scientific Responsibilities

- 2024 - Local coordinator for the PNRR projects ICSC - National Centre for HPC, Big Data and Quantum Computing and TERABIT – Network for Research and Academic Big Data in Italy.
- 2020 - 2024 Chairman of Technical and Scientific Committee (CTS) at the COMETA Consortium
- 2018 – today Responsible of the Department for Computing and Networking at the INFN Catania
- Member of the INFN “Commissione Calcolo e Reti” (CCR)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skill gained in presenting scientific work and activities at international Conferences as well as working in several international teams.

Organisational / managerial skills

- Experience in leading operations of a data center with a group of less than 10 people

Job-related skills

- good knowledge of the major Linux Operating System distributions
- good knowledge of Perl, C/C++, Python, Bash programming languages

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

SELECTED PUBLICATIONS

Publications

S. Monforte, "The IBiSCo infrastructure at INFN-CT," in Proceedings of the Final Workshop for the Italian PON IBiSCo Project, Naples, Italy, Apr. 2024, pp. 337–344.

Andronico, G., Bua, F., Fargetta, M., Giorgio, E., Guglielmo, A., Monforte, S., . . . Villari, M. (2016). Networking introspection and analysis for virtual machine migration in federated clouds doi:10.1007/978-3-319-33313-7_27

Andronico, G., Fargetta, M., Monforte, S., Paone, M., & Villari, M. (2015). Creating and managing dynamic cloud federations. Paper presented at the Proceedings of Science, , 15-20-March-2015

Andronico, G.; Fargetta, M.; Monforte, S.; Paone, M.; Villari, M., "A Model for Accomplishing and Managing Dynamic Cloud Federations," Utility and Cloud Computing (UCC), 2014 IEEE/ACM 7th International Conference on, vol., no., pp.744,749, 8-11 Dec. 2014

V. Boccia, L. Carraciulo, D. Del Prete, S. Pardi, M. Antonacci, G. Donvito, A. Monaco, V. Spinoso, G. Andronico, R. Barbera, M. Fargetta, S. Monforte, V. Lavorini, A. Tarasio, E. Tassi, G. B. Barone, D. Bottalico, L. Merola, S. Naddeo, G. Scotti, G. Russo, G. Maggi, and R. Bellotti, "Infrastructure Monitoring for Distributed Tier1: The ReCaS Project Use-Case", International Conference on Intelligent Networking and Collaborative Systems, Salerno, Italy, September 10-12, 2014. IEEE 2014, pp. 557-562, ISBN 978-1-4799-6387-4

CV Cardella Giuseppe

Personal Data

Address: INFN-Sezione di Catania, Via S.Sofia 64 95123 Catania

e-mail cardella@ct.infn.it

Scientific Degree:

Laurea(Master) Cum Laude in Physics 19/07/1982 Catania University

Scientific Degree:

2009 –*present* INFN – Research Director (dirigente di ricerca) at INFN-Sezione di Catania

1996-2009 INFN –Senior researcher (Primo ricercatore) at INFN-Sezione di Catania

1986-1996 INFN – researcher at INFN-Sezione di Catania

Research activity:

My research activity is in the field of experimental Nuclear Physics. It concerns primarily the investigations of reaction mechanism and structure effects in the heavy-ion collisions. I also realized various detection systems useful for the experiment I realized in collaboration with other physicist. My experimental activity was developed in many laboratories national and international, beginning at Saclay CEA laboratories and continuing at INFN-LNS (Catania, Italy), INFN-LNL (Legnaro, Italy), GANIL (Caen, Francia), GSI (Darmstat, Germania).

In this framework, I was National Responsible and/or Local Responsible of experiments supported by INFN - CNS3 (Commissione Scientifica Nazionale 3- Nuclear Physics Board) listed below. I was leader in the construction of monolithic silicon telescopes with very thin first stage. I give some original contributions on the study of the limiting energy for the population of GDR using both gamma-particle coincidence experiments and with the analysis of the formation of heavy residue using the CHIMERA detector. I worked on the installation and upgrading of this 4π multidetector, performing many experiments with this apparatus as spoke person. In the last years, I was leader in the production and use of fragmentation beams at LNS. I was the spoke-person of the first experiment with a radioactive fragmentation beam at LNS, the ^{18}Ne , that was used to search for a diproton decay of an excited state of this nucleus. The activity with radioactive beams was further pursued with the study of clustering of ^{10}Be and ^{16}C and more recently with the study of the excitation of the Pygmy resonance in ^{68}Ni . I was spokesperson for the measurement of the gamma decay of the ^{12}C high excitation levels, obtaining new results on their decay probability. I was the responsible of the upgrading of CHIMERA with the new digital GET electronics. Finally, I was Coordinator of INFN gruppo III sez. Catania from may 2001 to may 2007 and from July 2015 up to 2018.

Scientific responsibilities:

2014- 2020 National responsible of NEWCHIM experiment

National responsible of the following INFN experiments gruppo III: TRASMA 1995; TRASMACS 1996-1998; TRASMARAD 1999-2002; ISOSPIN 2006-2007; EXOCHIM 2008-2013; In the last years the average fund obtained were around 350 k€/year.

INFN principal investigator of the law 297 project “Nuovo rivelatore di particelle nucleari telescopio monolitico e sue applicazioni” Decr.dir.603 del 05/04/2007.

Scientific Boards and Committees:

2014-2020 Member of the LNL PAC

2015-2018 Member (Coordinator) of INFN-Nuclear Physics Board (CSN3 - Commissione Scientifica Nazionale 3)

2001-2006 Member (Coordinator) of INFN-Nuclear Physics Board (CSN3 - Commissione Scientifica Nazionale 3)

2008-2012 Chair of the “User Committee of LNS”

Evaluation Activity :

Referee of Phys.Rev.C – Nucl.instr.meth – IEEE transaction –nuclear Physics A

2006 - 2023 referee of the GAMMA experiment of INFN GruppoIII

2010 Chair of the commission for international postdoc experimental positions

2019 Evaluator for ERC proposal.

2020 Member of the commission for AGATA review.

Scientific and Organizing Activity for Conferences and Workshops:

IWM series 2001-2005-2009; ANSIP 2011- X e XI Int. Conf. on Nuclear Reaction Mechanism (2003-2006 Varenna) - IVth Topical Workshop on Modern Aspects in Nuclear Structure (Bormio 2018).

Teaching Activity:

Tutor of PHD thesis dr. M.Iacono Manno Catania University, dr I.Lombardo Catania University, Dr. S. De Luca Messina University, Dr N.Martorana Catania University. Tutor of more than 20 master and three-year degree thesis.

Spoke-person of more than 10 experiments performed at INFN-LNS with various detector systems

More than 40 presentations at national and international conferences with invited or selected talk

Coauthor of More than 170 publications on referred journals h-index 33 (from ISI)

Expertise of experimental nuclear physics; main experience with particle and gamma ray detectors.

Digital electronics.

PERSONAL INFORMATION

Elena Irene Geraci

Department of Physics and Astronomy, Via S. Sofia 64, 95123 Catania

<https://www.dfa.unict.it/docenti/elena.irene.geraci>

WORK EXPERIENCE

Since 1/07/2008 (*ongoing*)

Researcher in Nuclear Physics

University of Catania, Department of Physics and Astronomy, Via Santa Sofia 64, Catania, Italy

- Research activities in Nuclear Physics investigating heavy ion reactions, at low and intermediate energies, for the study of properties of nuclei in extreme conditions of density, temperatures and neutron content using CHIMERA and FARCOS experimental apparatus at Laboratori Nazionali del Sud (LNS-INFN).

Member of the international collaboration NUSTAR-R3B, performing experiments with radioactive beams at relativistic energies at GSI (Darmstadt, Germany).

- Lecturer of Physics in Bachelor degree course in Biology Sciences (UNICT)
- Lecturer of Heavy Ion Physics in Master degree in Physics (UNICT)
- Lecturer and Secretary of Specialization School of Medical Physics (UNICT)

1/04/2013 to 31/07/2019. • **Visiting research scholar**

- Department of Physics and Astronomy of Rutgers, State University of New Jersey, (NJ, USA)
- Research activities in the field of Nuclear Physics at low and intermediate energies

19-12-2005 to 30-06-2008. • **Researcher (ex art. 23)**

- Sezione di Bologna, Istituto Nazionale Fisica Nucleare, Via Bertini Pichat 6/2, 40127 Bologna
- Research activities in the field of heavy ion reactions at low and intermediate energies, using Garfield and RCO experimental apparatus at Laboratori Nazionali di Legnaro (INFN-LNL) and Chimera at INFN-LNS

01-03-2002 to 31-12-2005. • **Post-Doc Position**

- University of Bologna, Department of Physics, Viale Imerio 46, 40126 Bologna
- Research activities in the field of heavy ion reactions at low and intermediate energies, analysing experimental data from experiments performed at INFN-LNL and INFN-LNS.

MANAGING ACTIVITY

Since 22/10/2019 (*ongoing*)

Delegate of “Terza Missione” of Department of Physics and Astronomy, UNICT

University of Catania, Department of Physics and Astronomy, Via Santa Sofia 64, Catania, Italy

- Coordination of the activities of public engagement of DFA, as participation to ERN, Cosmic Day, International Day of Women and Girls in Science
- Coordination of activities with high Schools, as PCTOs, exhibitions, seminars in high schools, etc
- Coordination of “open day” and orientation activities for high-school students

Since 4/05/2022 (*ongoing*)

Member of the INFN Laboratori Nazionali di Legnaro User Board

INFN Laboratori Nazionali di Legnaro, Viale dell'Università, 2, 35020 Legnaro PD

- Elected in April 2022

Since 2/05/2022 (*ongoing*)

Scientific Manager of “Collezione Strumenti Antichi” at DFA

University of Catania, Department of Physics and Astronomy, Via Santa Sofia 64, Catania, Italy

- Rector Delegate for the scientific activities concerning the “Collezione Strumenti Antichi del Dipartimento di Fisica e Astronomia”, which includes more than 200 ancient instruments.
- Coordinator of the project that involves high school students in the valorization of the collection instruments for AA2022-2023
- Member of the Scientific Committee of SiMuA (UNICT)

Since 1/11/2020 (*ongoing*)

Representative of the Researchers for the INFN-Sezione Catania

As a research associate to INFN-sez Catania, Via Santa Sofia 64, Catania, Italy

- Elected by the INFN Sezione di Catania associates and employees on 1/2/2025 (second term)

Since 25/05/2023 (ongoing)
15/02/2023 -15/02/2025

- **Deputy Director** of Centro Siciliano di Fisica Nucleare e Struttura della Materia, Catania, Italy
- **Coordinator of the INFN Laboratori Nazionali del Sud User Committee**
- INFN Laboratori Nazionali del Sud, Viale Santa Sofia,62, Catania
- Elected in February 2023

EDUCATION AND TRAINING

Apr 1999 -Jan-2002

Ph. D. in Physics

University of Catania, Department of Physics , (XIV ciclo, AA 1998-2001)

Ph.D. thesis 'First results of 112,124Sn induced reactions on Al and Ni targets at 35 MeV/nucleon with the CHIMERA detector'

01-09-1997 al 01-04-1999

Post Lauream INFN Grant

Istituto Nazionale di Fisica Nucleare, Laboratori Nazionali del Sud (LNS)

Two years post-lauream grant to perform research activities on induced fission by medium-heavy ions at energies reachable with LNS Tandem accelerator.

23-07-1996

Degree in Physics

Replace with education or training organisation's name and locality (if relevant, country)

- Physics Degree with final grade 110/110 cum laude discussing an experimental thesis on "Uranium-238 Induced Fission by Fluorine ions at 125MeV"

PERSONAL SKILLS

Bibliometric Indexes

Co-author of 215 papers

Hindex :31 (1999-2025); 13 (2015-2025)

Citations: 2870 (Scopus)

Job-related skills

- Reviewer for Journal of Physics G: Nuclear and Particle Physics, IOP
- Tutor in BSC and MSC thesis
- Research activities in History of Physics

PERSONAL INFORMATION

Riccardo Rotondo

 riccardo.rotondo@ct.infn.it

WORK EXPERIENCE

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- | | |
|-------------------------|---|
| 06/2023 – today | Tecnologist – professional level III
National Institute for Nuclear Physics, Catania (Italy) |
| 06/2021 – 05/2023 | Technical Collaborator – professional level VI
National Institute for Nuclear Physics, Catania (Italy) |
| 06/2018 – 05/2021 | Technical Operator – professional level VIII
National Institute for Nuclear Physics, Catania (Italy) |
| 11/06/2015 – 10/11/2015 | Term-contract worker
Dipartimento dell’Emergenza e dei Trapianti di Organi (D.E.T.O.), Università degli Studi di Bari |
| 03/02/2014 – 02/10/2014 | Technologist – professional level III
National Institute for Nuclear Physics, Catania (Italy) |
| 21/11/2011 – 20/11/2011 | Scholarship |
| 17/12/2012 – 16/12/2013 | Consortium GARR (Gestione Ampliamento Rete Ricerca - The Italian Academic and Research Network) |
| 01/11/2009 – 31/10/2011 | Scholarship
National Institute for Nuclear Physics, Catania (Italy) |

EDUCATION AND TRAINING

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- | | |
|-------------------|--|
| 10/2000 – 10/2008 | Master Degree in Computer Engineering, 109/110
Università degli Studi di Catania, Italy |
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ACADEMY AND RESEARCH

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- | | |
|--------------|--|
| 2023 – today | PNRR ICSC Project
Centro Nazionale HPC, Big Data e Quantum Computing – Spoke 8 WP2, WP3, WP5 |
| 2019 - 2023 | PON IBiSCo Project
Infrastructure for Big data and Scientific COmputing |
| 2014 | agINFRA Project
A data infrastructure to support agricultural scientific communities – WP3, WP4 |
| 2012 - 2014 | CHAIN-REDS Project
Coordination and Harmonisation of Advanced e-Infrastructure for Research and Education Data Sharing |
| 2009 - 2013 | EPIKH Project
Exchange Programme to advance e-Infrastructure Know-How |
| 2009 - 2013 | DECIDE Project
Diagnostic Enhancement of Confidence by an International Distributed Environment |

Main Scientific Responsibilities

- 2023 – today Software engineer, development of scientific application.
- 2018 – 2023 System administrator, user support.
- 2015 Web portal administration, web app developer.
- 2014 Administration and development of cloud e-infrastructures, data management, processing, visualization and sharing through web environment.
- 2009 - 2013 Application porting on grid environment, system administrator, web developer, tutor for training activities.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	C1	B2	B2	C1
First Certificate					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Good communication skill gained both in tutorial activities and presenting scientific work in international contest.

Job-related skills

- Operating system: good knowledge of windows system, unix system as linux and mac os x
- Programming language: good knowledge of java, python; basic knowledge of Javascript, HTML, PLC languages
- Cloud manager: good knowledge of Kubernetes, Docker, Ansible.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

SELECTED PUBLICATION

Publications

Working papers:

- R. Rotondo, M. Fargetta, R. Barbera. A Data Engine for Science Gateways: enabling easy data transfer and sharing. In Proceedings of The International Symposium on Grids and Clouds and the Open Grid Forum Academia Sinica, Taipei, Taiwan, February 26 - March 02, 2012 <https://doi.org/10.22323/1.153.0039>.
- S. Monforte, O. Conti, C. Rocca, R. Rotondo, P. Belluomo, G. Platania. The IBiSCo infrastructure at INFN-CT. In THE IBiSCo PROJECT AND THE TRANSITION TOWARDS THE ITALIAN NATIONAL CENTER FOR HPC, BIG DATA AND QUANTUM COMPUTING (ICSC), September 2024, pp 31-41, <https://doi.org/10.5281/zenodo.13120590>.
- V. Ardizzone, R. Barbera, A. Calanducci, M. Fargetta, E. Ingrà, I. Porro, G. La Rocca, S. Monforte, R. Ricceri, R. Rotondo, D. Scardaci, A. Schenone. The DECIDE Science Gateway. In J Grid Computing, <https://doi.org/10.1007/s10723-012-9242-3>.
- R. Barbera, M. Fargetta, R. Rotondo, A Simplified Access to Grid Resources by Science Gateways. In Proceedings of The International Symposium on Grids and Clouds and the Open Grid Forum Academia Sinica, Taipei, Taiwan March 19 - 25, 2011 <https://doi.org/10.22323/1.133.0023>.
- R. Barbera, G. La Rocca, R. Rotondo, A. Falzone, P. Maggi, N. Venuti. Conjugating Science Gateways and Grid Portals into e-Collaboration environments: the Liferay and GENIUS/EnginFrame use case. In TG '10 Proceedings of the 2010 TeraGrid Conference, <https://doi.org/10.1145/1838574.1838575>.
- C. Carrubba, R. Rotondo, M. Fargetta, R. Barbera. "Social" Science Gateway to e-Infrastructures. In Proceedings of The International Symposium on Grids and Clouds and the Open Grid Forum Academia Sinica, Taipei, Taiwan, 17 - 22 March, 2013 <https://doi.org/10.22323/1.179.0031>.

Place, date

Catania, 26/09/2025