

CURRICULUM VITAE



PERSONAL INFORMATION

Name **CARIDI, FRANCESCO**
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Nationality Italian
Birth 12/03/1980
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WORK EXPERIENCES

12/29/2020-today

Institute University of Messina – MIFT Department
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Assistant Professor (RTD A)

07/01/2014-12/28/2020

Institute Agency for Environmental Protection of Calabria (ArpaCal) – Department of Reggio Calabria
Via Troncovito snc – 89135 – Reggio Calabria, Italy
Work activity PhD Research Scientist

Academic year 2020-2021

Institute Saint Camillus International University of Health Sciences (UniCamillus)
Via di Sant'Alessandro, 8 – 00131 Roma
Work activity Adjunct professor of Applied Physics

Academic year 2019-2020

Institute University of Messina-Department of Human Pathology "G. Barresi"
Via Consolare Valeria, 1 – 98125 – Messina
Work activity Adjunct professor of Applied Physics

Academic year 2018-2019

Institute University of Messina-Department of Veterinary Science
SS Annunziata – 98166 – Messina
Work activity Adjunct professor of Applied Physics

Academic year 2016-2017

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the project "Scientific Degrees – Physics"

Academic year 2014-2015

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Lecturer of Applied Physics in the Master "Forensic Geology"

10/01/2012-06/30/2014

Institute University of Messina – Department of Physics and Science of the Earth
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Expert Physicist

Academic year 2013-2014

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the course "Laboratory 1B", Physics degree

Academic year 2013-2014

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the course "Experiments of Physics", Mathematics degree

Academic year 2013-2014

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the project “Scientific Degrees – Physics”

Academic year 2013-2014

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Preparation of physics experimental activities”,
Mathematics degree**Academic year 2013-2014**

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Physics 3 with laboratory”, Physics degree

Academic year 2012-2013

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the project “Scientific Degrees – Physics”

Academic year 2012-2013

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Physics 3 with laboratory”, Physics degree

Academic year 2012-2013

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Preparation of physics experimental activities”,
Mathematics degree**Academic year 2011-2012**

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Physics”, Informatics degree

Academic year 2011-2012

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the course “Physics”, Environmental Science degree

Academic year 2011-2012

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the project “Scientific Degrees – Physics”

Academic year 2010-2011

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the project “Scientific Degrees – Physics”

Academic year 2009-2010

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Teaching in the project “Scientific Degrees – Physics”

12/30/2008-09/30/2012

Institute

University of Messina – Science MM. FF. NN. Faculty

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Work activity

Expert Physicist

Academic year 2007-2008

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the project “Scientific Degrees – Physics”

07/02/2007 – 12/29/2008

Institutes University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Italian Institute of Nuclear Physics (INFN) – National Laboratory of the South (LNS)
Via S. Sofia 64, 95125 Catania
Work activity Research Assistant in the Project “Non-equilibrium plasmas generated by pulsed laser ablation”

Academic year 2006-2007

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the project “Scientific Degrees – Physics”

Academic year 2004-2005

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity Teaching in the course “Laboratory 2B”, Physics degree

11/01/2003 – 10/31/2006

Institute University of Messina
Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Work activity PhD student in Physics
Research projects PLAIA (Pulsed Laser Ablation for Ion Acceleration) and PLATONE (Pulsed Laser Ablation for Transient Obtainable Electric field) of the Italian Institute of Nuclear Physics (INFN).

EDUCATION

01/25/2022 Institute	Italian MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca) Via Michele Carcani, 61 - 00153 Roma
Qualification	Italian National Scientific Abilitation for the position of University Full Professor, SC 02/D1-SSD FIS/07 (Applied Physics)
07/06/2020 Institute	Italian MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca) Via Michele Carcani, 61 - 00153 Roma
Qualification	Italian National Scientific Abilitation for the position of University Full Professor, SC 02/B1-SSD FIS/01 (Experimental Physics)
03/27/2020 Institute	University "Niccolò Cusano" Via Don Carlo Gnocchi, 3 – 00166 - Roma
Qualification	Master in Environmental Law and Land Protection (II level)
05/15/2019 Institute	Italian MIUR Via Michele Carcani, 61 - 00153 Roma
Qualification	Italian National Scientific Abilitation for the position of University Associate Professor, SC 02/B1-SSD FIS/01 (Experimental Physics)
03/07/2018 Institute	University "Guglielmo Marconi" Via Plinio, 44 – 00193 Roma
Qualification	Master in Forensic Sciences (II level) cum laude
03/01/2018 Institute	ELI-Beamlines, Institute of Physics, ASCR Na Slovance, 2, 18221 Prague 8, Czech Republic
Qualification	Scientific research relationship in the framework of Experimental Programs
04/04/2017 Institute	Italian MIUR (Ministero dell'Istruzione, dell'Università e della Ricerca) Via Michele Carcani, 61 - 00153 Roma
Qualification	Italian National Scientific Abilitation for the position of University Associate Professor, SC 02/D1-SSD FIS/07 (Applied Physics)
11/23/2015 Institute	University "Guglielmo Marconi" Via Plinio, 44 – 00193 Roma
Qualification	Master in Science of the Public Administration (II level)
11/29/2014 Institute	Project Management Italian Institute (ISIPM) Via Vallombrosa 47/a - 00135 - Roma
Qualification	Certification ISIPM-Base (N. 4292)
12/14/2011 Institute	Informatics Italian Association (AICA)
Qualification	ECDL – Computing sheet - Advanced level
12/14/2011 Institute	Informatics Italian Association (AICA)
Qualification	ECDL – Presentation instruments - Advanced level
11/02/2011 Institute	Informatics Italian Association (AICA)
Qualification	ECDL – Texts elaboration - Advanced level
03/03/2009 Institute	University of Messina Viale F. Stagno d'Alcontres, 31 – 98166 – Messina
Qualification	First classified for a two years post-PhD research activity

03/10-16/2008

Institute

Italian Institute of Nuclear Physics (INFN) – National Laboratory of the South (LNS)

Via S. Sofia 64, 95125 Catania

Main activity

Active participation on invitation to a scientific-experimental national collaboration aimed at the characterization of mono and polycrystalline diamond detectors for ions through the use of ion beams of high energy and charge state produced by a tandem particle accelerator

20/02/2007

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Qualification

PhD in Physics, excellent

04/11/2005-05/13/2005

Institute

Institute of Plasma Physics and Laser Microfusion (IPPLM).

23 Hery Str., 01-497 Warsaw, Poland.

Main activity

Active participation on invitation to a scientific-experimental national collaboration aimed at the plasma ions detection and implantation, EURATOM and SEMINANO research projects.

04/28/2004

Institute

Informatics Italian Association (AICA)

Qualification

ECDL core level

07/28/2003

Institute

University of Messina

Viale F. Stagno d'Alcontres, 31 – 98166 – Messina

Qualification

Degree in Physics (Nuclear and Subnuclear), 110/110 cum laude

JULY 1998

Institute

Scientific secondary school "A. Volta", Reggio Calabria

Qualification

Scientific diploma, 60/60

SCIENTIFIC AWARDS

- 11/13/2010** "Anassilaos award for scientific research, 2010"
Auditorium "N. Calipari", Reggio Calabria, Italy
- 07/23/2008** "Best young researchers award"
University of Messina, Italy
- 09/22/2006** "Author of the best oral contribution"
6th International Workshop and Summer School: "Towards Fusion Energy - Plasma Physics, Diagnostics, Spin-offs", Kudowa Zdroj, Polonia

SCIENTIFIC SCHOOLS

- 09/18-22/2006** 6th International Workshop and Summer School: "Towards Fusion Energy - Plasma Physics, Diagnostics, Spin-offs", Kudowa Zdroj, Polonia

RESEARCH ACTIVITIES PARTICIPATION AND DIRECTION

- 2021-today** Participation at the Research activities of the Applied Physics Group,
University of Messina, MIFT Department
- 2020** Direction of the Research activities in the framework of the Scientific
Collaboration between Agency for Environmental Protection of Calabria and
University of Reggio Calabria- Department of Agrarian
- 2017-2020** Direction of the Research activities in the framework of the Scientific
Collaboration between Agency for Environmental Protection of Calabria and
University of Reggio Calabria- Department of Engineering DIIES
- 2016-2020** Direction of the Research activities in the framework of the Scientific
Collaboration between Agency for Environmental Protection of Calabria and
University of Reggio Calabria- Department of Engineering DICEAM
- 2015-2018** Direction of the Research activities in the framework of the Scientific
Collaboration between Agency for Environmental Protection of Calabria and
University of Messina- Department of Physics and Science of the Earth
- 2013** Participation at the activities of the International research project ELIMED
- 2011-2012** Participation at the activities of the Italian research project INFN-LIANA
(Laser Ion Acceleration for Nuclear Applications)
- 2009-2010** Participation at the activities of the Italian research project INFN-PLEIADI
(Plasma Laser Energetic Ion Acceleration & Diagnostics).
- 2006-2008** Participation at the activities of the Italian research project INFN-PLATONE
(Pulsed Laser Ablation for Transient Obtainable Electric-field)
- 2003-2005** Participation at the activities of the Italian research project INFN-PLAIA

**INTERNATIONAL JOURNALS'
EDITORIAL BOARD MEMBER**

1. Applied Sciences (MDPI)
<https://www.mdpi.com/journal/applsci>
2. Current Nutrition and Food Science (Bentham Science Ed.)
<https://benthamscience.com/journals/current-nutrition-and-food-science/>
3. Materials (MDPI)
<https://www.mdpi.com/journal/materials>
4. Cogent Physics (Taylor & Francis Group)
https://www.cogentoa.com/journal/physics?utm_source=adestra&utm_medium=email&utm_campaign=J17045720
5. International Journal of Environmental Research and Public Health (MDPI)
<https://www.mdpi.com/journal/ijerph>
6. Springer Nature Applied Sciences (Springer)
<https://www.springer.com/engineering/journal/42452>

Executive Guest Editor:

1. Education Sciences (MDPI Publisher, thematic issue "Innovation and Challenges in Teaching and Learning Applied Sciences")
2. Gels (MDPI Publisher, thematic issue "Advances in Xerogels: from Design to Applications")
3. Current Nutrition and Food Science (Bentham Science Ed.) (thematic issue "Multi-element analyses and chemical-physical investigations of food samples")
4. Materials (MDPI Publisher) (thematic issue "Solid State Detectors for Assessment of Natural Radioactivity in Drinking Water: Materials and Method")
5. Applied Sciences (MDPI Publisher) (thematic issue "Advances in Environmental Applied Physics")
6. Frontiers in Physics (Frontiers Publisher, thematic issue "Advances in Food and Environmental Pollution")

**INTERNATIONAL JOURNALS'
REFEREE**

1. *Czech Journal of Physics*
2. *Radiation Effects and Defects in Solids*
3. *Physical Chemistry Journal*
4. *Laser and Particle Beams*
5. *Nuclear Instruments and Methods in Physics research: section B*
6. *American Journal of Modern Physics*
7. *Advances in Materials*
8. *Optics and Laser Technology*
9. *Journal of Materials Processing*
10. *Environmental Engineering and Management Journal*
11. *Nuclear Science and Techniques*
12. *Environmental Earth Sciences*
13. *Current Nutrition and Food Science*
14. *Karbala International Journal of Modern Science*
15. *The European Physical Journal Plus*
16. *The European Physical Journal A*
17. *Journal of Instrumentation*
18. *Radiation and Applications*
19. *Journal of Hydrology*
20. *MethodsX*
21. *Environmental Pollution*
22. *Chemosphere*
23. *Philippine Journal of Science*
24. *Radiation Physics and Chemistry*

25. *Applied Radiation and Isotopes*
26. *Materials*
27. *International Journal of Environmental Analytical Chemistry*
28. *Symmetry*
29. *Aquaculture Research*
30. *Journal of Environmental Radioactivity*
31. *Heliyon*
32. *Food Control*
33. *Molecules*
34. *Microchemical Journal*
35. *International Journal of Environmental Research and Public Health*
36. *Applied Sciences*
37. *Food Science and Technology*
38. *Scientific Reports*
39. *Nuclear Engineering and Technology*
40. *Foods*
41. *Food Additive and Contaminants*
42. *SN Applied Sciences*
43. *Journal of King Saud University*
44. *Ecological Indicators*
45. *Journal of X-Ray Science and Technology*
46. *Process Safety and Environmental Protection*
47. *Catena*
48. *Ecotoxicology and Environmental Safety*

PHD THESIS' REFEREE

N. Kharchenko, "Structure and properties of the low pressure longitudinal combined discharge in direct current and radiofrequency electric fields", Kharkov National University.

SCIENTIFIC WORKSHOPS AND SEMINARIES

Active participation with talks

- 09/02-03/2021** “2nd International workshop on MOdelling, Simulation and Data Analysis in Engineering and Physics Applications”, on-line conference
- 09/13-17/2021** 107 National Congress “Italian Society of Physics”, on-line conference
- 09/14-18/2020** 106 National Congress “Italian Society of Physics”, on-line conference
- 11/26/2019** Seminary “Diagnostics techniques for radioactivity measurements in environmental and food samples”
University of Reggio Calabria-Department of Agricultural Science, Reggio Calabria, Italy
- 12/18-19/2018** Italian National Congress “From Angelo Secchi to Modern Spectroscopy”
Reggio Calabria, Italy
- 09/17-21/2018** 104 National Congress “Italian Society of Physics”
Cosenza, Italy
- 09/07-09/2016** “The 3rd Elimed Workshop: Medical and multidisciplinary applications of laser-driven ion beams ae ELI-Beamlines”, INFN-Laboratori Nazionali del Sud, Catania, Italy
- 09/28/2012** Seminary “Pulsed laser-generated plasma and its applications”
Laboratory for Plasma Physics, Koninklijke Militaire School - Ecole Royale Militaire, Renaissancelaan, 30, avenue de la Renaissance, B-1000 Brussels, Belgium
- 11/08/2011** II Workshop of the PhD in physics
University of Messina, Science MM. FF. NN. Faculty, Messina, Italy
- 09/28/2011** Seminary “Laser-generated plasma and its applications”
Physics PhD course, University of Messina, Italy
- 09/21-23/2011** 5th Workshop on “Plasma Production by laser Ablation (PPLA) 2011”
Palazzo Manganelli, Catania, Italy
- 11/10/2010** I Workshop of the PhD in physics
University of Messina, Science MM. FF. NN. Faculty, Messina, Italy
- 04/19/2010** IV Workshop “Archeology, Numismatics and Archeometry”
University of Messina, Science MM. FF. NN. Faculty, Messina, Italy
- 10/09/2008** I Workshop “Plasmas, sources, biophysics and applications”
University of Salento, Lecce, Italy
- 07/18/2008** Workshop “Physical techniques applied to cultural heritage”
Museum of Reggio Calabria, Italy
- 07/16/2007** VIII Workshop “Biomaterials and biomechanics”
Catania University, Italy
- 06/14-16/2007** International Workshop “Plasma Production by Laser Ablation 2007”
Scilla (RC), Italy
- 09/19/2006** Seminary “Energy distribution of particles ejected by laser-generated plasmas”
6th International Workshop and Summer School: “Towards Fusion Energy – Plasma Physics, Diagnostics, Spin-offs”
Kudowa Zdroj, Poland
- 09/26/2005-10/01/2005** XCI National Congress “Italian Society of Physics”
Catania University, Italy

06/08-11/2005	International Workshop "Production of Intense Beams of Highly Charged Ions" & "Plasma Production by Laser Ablation 2005" Giardini Naxos (ME), Italy
05/11/2005	<u>Seminary "The research activity of the Prof. Torrisi group at the INFN-LNS and the University of Messina – Department of Physics"</u> Institute of Plasma Physics and Laser Microfusion (IPPLM), 23 Hery Str., 01-497, Warsaw, Poland
09/20-25/2004	XC National Congress "Italian Society of Physics" Brescia, Italy
Active participation with posters	
09/21-23/2011	5 th Workshop on "Plasma Production by laser Ablation (PPLA) 2011" Catania, Palazzo Manganelli, Italy (N. 2 Posters).
06/16-19/2008	23 ^d Symposium on "Plasma Physics and Technology" Czech Technical University, Faculty of Electrical Engineering, Prague, Czech Republic (N. 3 Posters).
06/14-16/2007	International Workshop "Plasma Production by Laser Ablation 2007" Scilla (RC), Italy, (N. 3 Posters).
06/26-29/2006	22 nd Symposium on "Plasma Physics and Technology" Prague, Czech Republic (N. 2 Posters).
06/08-11/2005	International Workshop "Production of Intense Beams of Highly Charged Ions" & "Plasma Production by Laser Ablation 2005" Giardini Naxos (ME), Italy (N. 4 Posters).
Contributions	
10/16-18/2019	XXXV National Congress of Radioprotection Perugia, Italy (N. 1 Poster)
10/28-30/2015	XXXVI National Congress of Radioprotection Matera, Italy (N. 2 Posters)
10/19/2012	III Workshop "Plasmas, sources, biophysics and applications" University of Salento, Lecce, Italy (N. 1 Poster)
10/03-09/2010	4 th International conference on "superstrong fields in plasmas" Villa Monastero, Varenna, Italy (N. 1 Poster).
07/05-08/2010	"International Conference FLAMN-1. Fundamentals of Laser Assisted Micro- & Nanotechnologies" S. Pietroburgo, (N. 1 Poster).
06/21-25/2010	37 th EPS "Conference on Plasma Physics" Dublino, (N. 1 Poster).
06/14-17/2010	24 th Symposium on "Plasma Physics and Technology" Prague, Czech Republic (N. 1 Poster).
05/24-26/2010	"YOUTH in CONSERVATION of CULTURAL HERITAGE - YOCOCU" Palermo, Italy (N. 1 Poster).
06/29/2009-07/03/2009	36 th EPS "Conference on Plasma Physics" Sofia, Bulgaria (N. 1 Poster).
06/18-20/2009	4 th Workshop on "Plasma production by laser ablation" Messina, Italy (N. 3 Posters).
06/23-27/2008	"11 th European Particle Accelerator Conference" Genova, Italy (N. 1 Poster).

- 06/09-13/2008** 35th EPS “Conference on Plasma Physics”
Hersonissos, Greece (N. 1 Poster).
- 09/30/2007-
10/05/2007** “18th International Conference on Cyclotrons and their Applications”
Giardini Naxos (ME), Italy (N. 1 Poster).
- 07/02-06/2007** 34th EPS “Conference on Plasma Physics”
Warsaw, Poland (N. 1 Poster).
- 06/19-23/2006** 33rd annual European Physical Society “Conference on controlled fusion
and plasma physics”
Rome, Italy (N. 1 Poster).
- 09/28/2004-10/01/2004** 9th “Meeting and Seminar on: Ceramics, Cells And Tissues Annual
Conferences. Materials For Tissues Engineering Chemistry And
Microstructure: The Role For Ceramics”
Faenza, Italy, (N. 1 Poster).

SCIENTIFIC WORKSHOPS ORGANIZATION

- 12/04-05/2021** Technical Committee Member of the “2021 International Conference on
Energy Science and Environmental Chemistry (ICESEC 2021)”,
Wuhan, China
- 10/25-27/2021** Organizing Committee Member of the “2nd International Conference and
Expo on Materials Science and Nanoscience”, Cologne, Germany
- 10/20-22/2021** Organizer of the Special Issue “Light-based techniques for analysis,
diagnostics and conservation of historical-artistic and museum cultural
heritage”, “2021 IEEE International Conference on Metrology for
Archaeology and Cultural Heritage”, Milano, Italy
- 06/19-20/2020** Organizing Committee Member of the “5th International Conference on
Recent advances in Physics (PHY 2021)”, Copenhagen, Denmark
- 10/24-25/2020** Organizing Committee Member of the “International Conference on
Recent Advances in Physics”, Dubai
- 06/15-16/2020** Organizing Committee Member of the “International Conference and Expo
on Food Technology and Probiotics”, Montreal, Canada
- 11/18-19/2019** International Advisory Board member “International Symposium on
Science, Technology and Engineering “, Melaka, Malaysia
- 06/05-07/2019** Scientific Committee Member of the “VII Convegno Nazionale Agenti
Fisici”, Stresa (VB), Italy
- 05/30/2019-06/02/2019** Scientific Committee Member of the 4th International Conference on
Food and Biosystems Engineering”, Agia Pelagia-Heraklion, Crete
Island, Greek
- 12/04-08/2017** Organizing Committee Member of the “Collaborative Conference on
Detectors (CCD)”, Orlando, USA.
- 09/21-23/2011** Scientific secretariat of the 5th International Workshop “Plasma
Production by Laser Ablation”, Catania, Italy

SCIENTIFIC ACTIVITIES

Bibliometric parameters (SCOPUS database): Documents by author **119**; Citations **1041**; H-index **23** (updated 04/02/2022).

The research activity of Prof. Francesco Caridi concerned both environmental physics, with particular reference to radioactivity of natural and anthropogenic origin in environmental and food matrices, and physics applied to cultural heritage, with particular reference to study, identification and characterization of pigments, mortars and plasters in finds of particular historical-artistic interest. Prof. Francesco Caridi has also dealt with applied physics to biomedical problems, with particular attention to the use of a combined approach of the MRgFUS (Magnetic Resonance guided Focused Ultrasound Surgery) technique and fNIRS (functional Near-Infrared Spectroscopy) for the treatment and monitoring of patients with bilateral Parkinson's disease.

In detail, the scientific research activity in the field of environmental radioactivity was carried out using instrumentation capable of performing gamma, alpha and total beta spectrometry analyzes, haemanometry, alpha spectrometry and liquid scintillation, in order to determine the activity concentration of natural and anthropogenic radionuclides in environmental and food matrices, through the detection of excess nuclear energy emitted as particles and photons. This characterization then makes it possible to estimate the radiological risk for professionally exposed workers and for the population, by calculating appropriate radiation protection indices.

In the field of archeometry, study and diagnostics of cultural heritage and in the field of physics applied to biomedical problems, Prof. Francesco Caridi has been involved in developing physical methodologies for experimental investigation, also supported by theoretical/simulation approaches. The simultaneous use of multiple experimental methodologies, such as light scattering (Raman, Fourier transform Raman (FT-Raman)), together with Fourier transform infrared absorption spectroscopy in Attenuated Total Reflectance geometry (FTIR-ATR), X-ray fluorescence spectroscopy (XRF), at the laboratories of the Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences of the University of Messina, has proved particularly valuable for the understanding of these complex issues.

In particular, the research activity can be summarized according to the following lines:

- 1) Characterization of environmental and food matrices in terms of specific activity of natural and anthropogenic radionuclides;
- 2) Physical methodologies of experimental investigation used in the field of archeometry, study and diagnostics of cultural heritage;
- 3) Spectroscopic investigations in the field of physics applied to biomedical problems.

PERSONAL SKILLS

MOTHER TONGUE LANGUAGE	ITALIAN
	ENGLISH
• Reading	Very good
• Writing	Very good
• Talking	Very good
RELATIONAL SKILLS	Willingness to live and work with others and in a multicultural environment (acquired during work experience abroad), to occupy positions where communication is important (participation in national and international conferences), to encourage discussion and debate on workplace (eg. internal seminars) to address situations where teamwork is essential (belonging to a group of scientific research).
ORGANIZATIONAL SKILLS	Able to collaborate on high level projects (participation in research projects and national and international experiments), to summarize the results obtained after long periods of study and scientific research (eg. dissertations, PhD thesis and several publications in international journals), to manage situations of responsibility.
COMPUTER SKILLS	<ul style="list-style-type: none">• Excellent knowledge of Windows operating systems, of the Office package, of programs to fit (Origin, PeakFit, etc..) and web browsing. Good knowledge of Joomla! for creating websites. Elementary programming skills in MATLAB. Webmaster of the following websites:<ul style="list-style-type: none">- Official website of the international scientific congress PPLA 2011.- Official web site of international scientific conferences PIBHIPLA and PPLA 2005 and 2007.- Official web site of the VIII Study Day on Biomaterials and Biomechanics 2007.- Website of the degree in analysis and management of natural and anthropogenic, University of Messina.- Website of the Degree Course in Territorial Risk Management, University of Messina.
OTHER SKILLS	<ul style="list-style-type: none">• Scientific association at the INFN (National Institute of Nuclear Physics) of Catania - Messina Associated Group, from 2004 to 2007 as PhD student, from 2007 to 29/12/2008 as PhD researcher and from 12/01/2010 as expert physics.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

Place and date:

Messina, 04 February 2022

Signature:

