

# Curriculum Vitae



## Personal Information

Name / Surname **Daniele Di Giovanni**  
Address Via Clelia n.15, ZIP 00181, Rome, Italy  
Mobile [REDACTED]  
E-mail [REDACTED]  
Citizenship Italian  
Date of birth 05/05/1980  
Gender M

## Professional Experience

Date August 2024 – Present  
Position **Research Fellow**, Department of Biomedicine and Prevention, University of Rome Tor Vergata  
Main Responsibilities Research activity focused on a project aimed at developing a risk assessment model for misuse of hospital services, funded under PNRR-PNC-MUR-DARE.  
Date July 2019 – July 2024  
Position **Researcher** in Experimental and Applied Physics, Department of Industrial Engineering, University of Rome Tor Vergata

Main Responsibilities	<p>Development of projects dealing with CBRNe Safety and Security.</p> <p>Coordinator for the University of Rome Tor Vergata for activities related to the EU projects:</p> <ul style="list-style-type: none"> <li>- "e-NOTICE European Network Of CBRN Training Centers": <a href="https://www.h2020-enotice.eu">https://www.h2020-enotice.eu</a> . The main objective of project is to establish a European network of CBRN training, testing and demonstration centres aiming at enhancing CBRN training capacity for improved preparedness and incident response through increased collaboration between CBRN training centres and practitioners' needs-driven CBRN innovation and research.</li> <li>- "TRANSnational TUNnel operational CBRN risk mitigation" (<a href="https://transtun-project.eu/">https://transtun-project.eu/</a>), a public-private initiative aimed at mitigating the risk of undesirable chemical events in tunnels in the EU, improving the preparedness and response of operators, emergency responders and Member States in dealing with CBRN threats in cross-border land tunnels for the implementation of an In-Situ Cooperation System in case of a CBRN event.</li> <li>- "REsilience Support for critical Infrastructures through Standardized Training on CBRN" (<a href="https://project-resist.eu/">https://project-resist.eu/</a>). The RESIST project focuses on the standardisation of CBRN training for public and private operators of critical infrastructures.</li> <li>- VERTIgO project focuses on creating and designing an innovative and inter-operable CBRN VR training system for EU military actors, capable of integrating with civilian first responders' requirements, called EESP (European Exercises Simulation Platform)</li> <li>- EDA Call for Tenders 20.RTI.OP.103 – Service Framework Contract for the Provision of “CBRN Protection Research &amp; Technology Studies and Expertise” Specific Contract N°4 (21.RTI.SC.528)</li> </ul> <p>R&amp;D responsible for projects regarding the development of technological demonstrators devoted to the integration of miniaturized detection systems to drones, to facilitate risk analysis of first responders in field and the geo-referencing of an area possibly contaminated with chemical or radiological agents.</p> <p>Scientific responsible for the University of Rome Tor Vergata for activities related to the NATO project: “DEUSS - Detection Unmanned aerial vehicle (UAV) with Sampling System”</p> <p>Development of research projects dedicated to risk analysis, health impact assessment and environmental monitoring, as part of the collaboration between the Department of Bio-Medicine and Prevention and ENEL, of the study:</p> <ul style="list-style-type: none"> <li>- Co-author of the study: "The health status of the population of Termini Imerese (PA). The study reports and analyses, for the area of interest, detailed data on mortality (Standardized Mortality Rate - SMR) and hospitalization (Standardized Hospitalization Rate - SHR), in order to complete the Health Impact Assessment (HIA) included in the Environmental Impact Assessment Procedure.</li> <li>- Co-author of the study: "The health status of the population in the region of Sardinia (focus on the municipality of Portoscuso, South Sardinia)". The study reports and analyses, for the area of interest, detailed data on mortality (Standardized Mortality Rate - SMR) and hospitalization (Standardized Hospitalization Rate - SHR), in order to complete the Health Impact Assessment (HIA) included in the Environmental Impact Assessment Procedure.</li> <li>- Author of the study: "Atmospheric pollution and new risk measurement techniques with particular regard to PM2.5 particulate matter: Definition of human health protection measures through Benchmark Dose".</li> </ul>
Date	May 2017 – July 2019
Position	<p><b>Research fellow</b> at the Department of Industrial Engineering, University of Rome Tor Vergata.</p> <p>Activity: <u>'Application of a multi-wavelength technique for the measurement of aggressive chemical pollutants'</u>.</p>
Main Responsibilities	<p>Development of research projects in the field of CBRN (Chemical, Biological, Radiological, Nuclear) security:</p> <ul style="list-style-type: none"> <li>- Scientific and technical contribution within the 'SNIFF' (Sensor Network Infrastructure For Factors) project</li> <li>- Scientific and technical contribution within the 'TELEMACO' (TELE-detection and Automated Monitoring of Aggressive Organic Compounds) project aimed at the design, realisation and field testing of a low-cost industrial product for environmental remote sensing, using LIDAR/DIAL techniques</li> <li>- Scientific and managerial contribution to EU and national funding applications (H2020, implementation of the EU CBRN Action Plan, ESA, PNRM, PRIN).</li> </ul>

Date	February 2014 – April 2017
Title of qualification	<b>Scholarship student of the Doctorate School (Cycle XXVIII) in Industrial Engineering</b> , at the University of Rome Tor Vergata Thesis title: "Feasibility study of a plant for algal biomass use in the production of advanced biofuels".
Date	January 2013 – January 2014
Position	<b>Technical consultant for CRATI</b> ('Consortium for Research and Technological and Innovative Applications', <a href="http://www.crati.it">www.crati.it</a> ) - University of Rome Tor Vergata
Main Responsibilities	Technical collaboration on the design of a plant for the production of biofuel from algal biomass. The collaboration covered the following phases <ul style="list-style-type: none"> <li>- Modelling and dimensioning of components, using ProSimPlus software.</li> <li>- Definition of process lines.</li> <li>- Technical-economic feasibility analysis.</li> </ul>
Date	January 2010 – June 2012
Position	<b>Technical consultant for the company TECMA S.r.l.</b>
Main Responsibilities	Technical support for the construction and maintenance of heating, air-conditioning and fire-fighting systems in the civil and industrial sectors, formulation of offers for tenders, customer and supplier relationship management. Design, realisation and access to incentive tariffs for small-scale PV systems.
Date	September 2006 – May 2010
Position	<b>Technical consultant for the company EnerGia-Da S.r.l.</b>
Main Responsibilities	Drafting of projects and awarding of funds, for the implementation of energy audits and energy consumption rationalisation projects, in public administrations. Study and analysis of technical contents, concerning the control of energy costs and consumption in the residential context, covered in the programme course 'La MIA Bio Casa', realised by EnerGia-Da S.r.l. in collaboration with Rai Educational.
<b>Other experiences</b>	<p>2017</p> <p><b>Course Manager for CEPOL courses (European Union Agency for Law Enforcement Training)</b> Contact person for the University of Rome Tor Vergata for the development of CEPOL courses, 'Management of emergency situations and "Hotspot - Regional focus on migration"'. </p> <p>2015 - 2018</p> <p><b>Member of the Directive Board of the International Masters in CBRNe Event Protection</b> Member of the 'didactic management unit' of the International Master's Degree Level I and II in Protection from CBRNe Events at the University of Rome Tor Vergata.</p> <p>2016</p>

## Teaching Experience

### **Founder of the non-profit association HESAR (Health Safety Environmental Research Association Rome).**

The association aims to increase the environmental protection and safety of individuals and the community, to improve the living, working and ecological conditions of the system, and to promote information, training, refresher courses, study, research, development and innovation initiatives.

- In 2018, HESAR collaborated in the organisation of the 4th International CBRNe Workshop 'IW2018' (<https://sievertacademy.com/iw2018/>) - 'Countering Radiological and Nuclear threats'.
- In 2017, HESAR organised the SICC2017 conference (<https://www.sicc2017.com/>), the first international scientific conference on CBRNe.

2015

**Lecturer at the 36th COCIM Civil-Military Cooperation Course** organised by the Italian Centre for Advanced Defence Studies

2019 – Present

#### **Lecturer at the University of Rome Tor Vergata**

From 2019, coordinator of the Medical Statistics course (4 CFU), for the Master of Science in Dentistry degree course;

From 2020, holder of the course in Research Methodology (3 CFU), for the Master of Science in Health Professions and Prevention degree course;

From 2021, holder of the course in Research Methodology (1 CFU), for the Master's degree course in Health Professions Sciences - Diagnostic Techniques.

2016 – Present

#### **Adjunct lecturer at 'Unicamillus - International Medical University' in Rome**

Since 2019, holder of the course Medical Statistics (1 CFU), for the Master of Science in Nursing degree course;

Since 2019, holder of the course Medical Statistics (1 CFU), for the Master of Science in Midwifery degree course;

Since 2021, holder of the Medical Statistics course (2 CFU), for the Master of Science in Physiotherapy degree course.

2016 – 2017

**Lecturer during the 38th and 37th COCIM (Civil-Military Cooperation) courses** at CASD (Centre for Advanced Defence Studies, Interforce Staff College).

2016 - Present

**Lecturer during the International Master of II in 'Protection Against CBRNe Events'** editions 2015-16, 2017-18, 2018-19, 2019-20, 2020-21.

2015 - 2016

#### **Contract Lecturer at the University of Rome Tor Vergata**

Tutor in General Physics for the Faculty of Engineering

2012

#### **Lecturing at the ELIS Professional Training Consortium**

Module '*Plants and Technologies for Renewable Energy*', for the course Operations & Maintenance Manager 2012 (OMM)

## Education and Training

Date February 2013 – November 2013

Title of qualification	<b>International Post-graduate degree in "Protection against CBRNE events" Degree</b>
Main topics	Content organised in seven modules covering: <ul style="list-style-type: none"> <li>- CBRNe Risk;</li> <li>- Agents, effects and their mitigation systems;</li> <li>- Instrumentation and technologies;</li> <li>- DSS software;</li> <li>- Collective and individual protection;</li> <li>- National Event Response System;</li> <li>- Critical infrastructure, investigation and communication.</li> </ul>
Providing entity	University of Rome 'Tor Vergata'.
Date	June 2010 – November 2012
Title of qualification	<b>Basic Specialisation Course in Fire Prevention pursuant to Ministerial Decree of 5 August 2011</b>
Main topics	Fundamentals of Fire Prevention and Protection. Course valid for the registration of professionals in the Ministry of the Interior's lists pursuant to Article 16 of Legislative Decree no. 139 of 8 March 2006.
Providing entity	Register of Engineers of the Province of Rome
Date	2007
Title of qualification	Registration with the Register of Engineers of the Province of Rome since 26/02/2007, under no. 28066, in section A - sector(s): Civil and Environmental.
Providing entity	Register of Engineers of the Province of Rome
Date	2006
Title of qualification	<b>Professional Energy Manager Course</b>
Main topics	Management and optimisation of costs and consumption related to energy and environmental expenditure, both in the tertiary and industrial sectors; training aimed at the development of projects in accordance with European community programmes (SAVE; ALTENER; COOPENER).
Providing entity	University of Rome 'Tor Vergata' and Lazio Region
Date	2003 -2006
Title of qualification	<b>Master's degree in environmental engineering</b>
Main topics	Thesis title: 'Design of an integrated photovoltaic system for motorway service areas'.
Providing entity	University of Rome 'Tor Vergata'.
Level in national or international classification	Master's degree with grade 105/110
Date	1999 – 2003
Title of qualification	<b>Bachelor's degree in environmental engineering</b>
Main topics	Thesis title: 'The pricing system of an industrial waste water management service
Providing entity	University of Rome 'Tor Vergata'.
Level in national or international classification	Laurea di primo livello con votazione 104/110

**Capacità e competenze personali**

Native speaker

Italian

Other language(s)

Self evaluation

Understanding		Spoken		Written
Listening	Reading	Spoken interaction	Oral production	
Good	Good	Good	Good	Good

English

**Selection of scientific publications (2020 – 2024)**

**Biophysical risk in 189 Italian prisons: an inference analysis from the second to the fourth wave of the COVID-19 pandemic.**

Franchi C, Gaudio P, Malizia A, Albano A, Suriano G, Palma M, D'Ettore FM, DIGIOVANNI D 2024. THE EUROPEAN PHYSICAL JOURNAL PLUS 2024, vol. 139, 882, ISSN: 2190-5444, doi: 10.1140/epjp/s13360-024-05646-6

**Device associated healthcare associated infection (DA-HAI): a detailed analysis of risk factors and outcomes in a university hospital in Rome, Italy**

Guarente L, Mosconi C, Cicala M, De Santo C, Fausto Ciccacci F, Carestia M, Emberti Gialloreti L, Palombi L, Quintavalle G, DIGIOVANNI D, Buonomo E, Moramarco S, Riccardi F, Orlando S. INFECTION PREVENTION IN PRACTICE 2024, vol. 6, ISSN: 2590-0889, doi: 10.1016/j.infpip.2024.100391

**Lung clearance index short-term variability in cystic fibrosis: a pre-post pulmonary exacerbation study.**

De Marchis M, Montemitro E, Boni A, Federici A, DiGiovanni D, Cristiani L, Cutrera R, Fiocchi AG. THE ITALIAN JOURNAL OF PEDIATRICS 2024, vol. 50, 6, ISSN: 1824-7288, doi: DOI: 10.1186/s13052-023-01574-w

**Transperineal Laser Ablation (TPLA) Treatment of Focal Low-Intermediate Risk Prostate Cancer**

Manenti G, Perretta T, Nezzo M, Fraioli FR, Carreri B, Gigliotti PE, Micillo A, Malizia A, DIGIOVANNI D, Ryan CP, Garaci FG. CANCERS 2024, vol. 16, 7, ISSN: 2072-6694, doi: 10.3390/cancers16071404

**Vaccine Hesitancy, Knowledge, and COVID-19 Vaccination in a Sample of Italian and Albanian Healthcare Students Attending an University in Albania**

Buonomo E, Cenko F, Piuanno G, DIGIOVANNI D, Gjini E, Kërpi B, Carestia M, Moramarco S, Ferrari, C, Coppeta L. TROPICAL MEDICINE AND INFECTIOUS DISEASE 2024, 3, ISSN: 2414-6366, doi: 10.3390/tropicalmed9030057

**Using Machine Learning to Explore Shared Genetic Pathways and Possible Endophenotypes in Autism Spectrum Disorder**

Di Giovanni, D.; Enea, R.; Di Micco, V.; Benvenuto, A.; Curatolo, P.; Emberti Gialloreti, L. Using Machine Learning to Explore Shared Genetic Pathways and Possible Endophenotypes in Autism Spectrum Disorder. Genes 2023, 14, 313. <https://doi.org/10.3390/genes14020313>

**A novel, integrated approach for understanding and investigating Healthcare Associated Infections: A risk factors constellation analysis**

Mariachiara Carestia; Giuseppe Di Martino; Massimo Andreoni; Ersilia Buonomo; Fausto Ciccacci; Luigi De Angelis; Gerardo De Carolis; Patrizia De Filippis; Daniele Di Giovanni; Leonardo Emberti Gialloreti et al. PLOS ONE. 2023-03-24 | Journal article. DOI: 10.1371/journal.pone.0282019

**Public Health as a Global Good: The Need for Health Information Systems to Enhance Global Health Security**

Azeez, B., Akhshirsh, G., Moramarco, S., ...Basa, F.B., Gialloreti, L.E. Open Public Health Journal, 2022, 15(1), e187494452212162

**Hesitancy toward Childhood Vaccinations: Preliminary Results from an Albanian Nursing Staff's Investigation**

Gjini, E., Carestia, M., Cenko, F., ...Yulli, A., Buonomo, E. Nursing Research and Practice, 2022, 2022, 7814488

**Biological risk in Italian prisons: data analysis from the second to the fourth wave of COVID-19 pandemic**

Cristiano Franchi, Riccardo Rossi, Andrea Malizia, Pasqualino Gaudio, Daniele Di Giovanni  
Occupational & Environmental Medicine. 2026-03-16 | Journal article. DOI: 10.1136/oemed-2022-108599

**Vaccine Hesitancy, Knowledge, and COVID-19 Vaccination in a Sample of Italian and Albanian Healthcare Students Attending an University in Albania**

Ersilia Buonomo; Fabian Cenko; Gaia Piuanno; Daniele Di Giovanni; Enkeleda Gjini; Bora Kërpi; Mariachiara Carestia; Stefania Moramarco; Cristiana Ferrari; Luca Coppeta.  
Tropical Medicine and Infectious Disease. 2024-02-29 | Journal article. DOI: 10.3390/tropicalmed9030057

**BUILDING VULNERABILITY ASSESSMENT FOR EXPLOSIVE AND CBR TERRORIST ATTACKS**  
MARCO CARBONELLI; RICCARDO QUARANTA; ANDREA MALIZIA; PASQUALE GAUDIO;  
DANIELE DI GIOVANNI; GRACE P. XERRI

WIT Transactions on The Built Environment. 2022-12-21 | Conference paper. DOI: 10.2495/ssr220081. Part of ISSN: 1743-3509. Part of ISSN: 1746-4498

**Biological Risk in Italian Prisons: From the COVID-19 Management to the Development of a Standardized Model for Emergency Response**

Franchi, C., Giacalone, E., Di Giovanni, D., Moramarco, S., Carestia, M. (2021). INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, 2021, 18, 10353.

**Ten-year mortality trends and natural causes of death in the Iraqi Kurdistan**Salih, S.O., Moramarco, S., Di Giovanni, D., ...Basa, F.B., Gialloreti, L.E. (2021). OPEN PUBLIC HEALTH JOURNAL, 14(1), pp. 264–271

**Clustering analysis supports the detection of biological processes related to autism spectrum disorder**

Gialloreti, L.E., Enea, R., Di Micco, V., Di Giovanni, D., Curatolo, P. (2020). GENES, , 11(12), pp. 1–18, 1476

**Supporting Iraqi Kurdistan Health Authorities in Post-conflict Recovery: The Development of a Health Monitoring System.**

Emberti Gialloreti, L.; Basa, Fb; Moramarco, S; Salih, Ao; Alsilefanee, Hh; Qadir, Sa; Bezenchek, A; Incardona, F; Di Giovanni, D; Khorany, R; Alhanabadi, Lhh; Salih, So; Akhshirsh, Gs; Azeez, Bs; Tofiq, Ba; Palombi, L (2020). FRONTIERS IN PUBLIC HEALTH, 8,

**CBRNe as Conceptual Frame of an All Hazards Approach of Safety and Security: The Creation of Organic Networks of Military, Civil, Academic/Research and Private Entities at National and International Level to Generate Solutions for Risk Reduction – A European and Italian Perspective.**

Carestia, M; Troiani, F; Caldari, R; Civica, M; Bruno, F; Vicini, C; Di Giovanni, D; Iannotti, A; Russo, C; Thornton, M; Palombi, L; d'Errico, F; Bellecci, C; Gaudio, P; Malizia, A (2020). In S.K. Janez Bonča (a cura di), Advanced Nanomaterials for Detection of CBRN (pp. 307-315). Springer Science+Business Media B.V..

conference proceedings

**Lidar and Dial application for detection and identification: a proposal to improve safety and security**

P. Gaudio, a A. Malizia, M. Gelfusa, A. Murari, S. Parracino L.A. Poggi, M. Lungaroni, J.F. Ciparisse, D. Di Giovanni, O. Cenciarelli, M. Carestia, E. Peluso, V. Gabbarini, S. Talebzadeh and C. Bellecci. (2017) Proceedings of the 4th International Conference Frontiers in Diagnostics Technologies 30 March 2016 to 1 April 2016 Frascati, Rome, Italy DOI: [10.1088/1748-0221/12/01/C01054](https://doi.org/10.1088/1748-0221/12/01/C01054)

**G.A.T.E': Gap analysis for TTX evaluation.**

Cacciotti, I, D, Di Giovanni, Pergolini, A, Malizia, A, Carestia, M, Palombi, L, Bellecci, C, Gaudio P. (2016) AIP Conference Proceedings 1738, 270019 (2016); doi: 10.1063/1.4952058

**Presentations on invitation**

**54th Course of the C. Polvani 'Nuclear Forensics and Retrospective Dosimetry'.**  
Naples, Italy, November<sup>6th</sup> -7<sup>th</sup>, 2017

**1st OPCW Day 2016**  
The Hague, Netherland, May 2<sup>th</sup>-4<sup>th</sup>, 2016

**The First Global Chemical Safety and Security Summit**  
Kielce, Poland, April 18<sup>th</sup>-20<sup>th</sup>, 2016

**3rd International Symposium on Development of CBRN Defence Capabilities.** Berlin, Germany,  
October 19<sup>th</sup>-21<sup>st</sup>, 2015

Communication skills and competences	Acquired while conducting seminars and lecturing for specialised training courses.
Organisational skills and competences	Relational skills acquired through numerous university group project experiences. Strong work management and organisation skills developed during autonomous and group professional experiences.
Technical skills and competences	Design of structures and technical installations; energy analyses in the domestic and industrial fields.
Computer skills and competences	Operating systems: Windows 11, Xp professional Office 365 package: Word, Excel, Power Point, Project Technical software: SPSS Vs.27,
Artistic skills and competences	Technical and freehand drawing skills

### **Additional information**

Driving license A/B

Qualifications  
Licensed to practice  
Registration with the Order of Engineers of Rome in 2007

I hereby authorise the processing of my personal data pursuant to Legislative Decree no. 196 of 30 June 2003 'Personal Data Protection Code'.

I hereby declare that the information provided herein is true, pursuant to and for the purposes of Articles 46 and 47 of Presidential Decree 445 of 2000.

**Date** 30\_10\_2024

**Signature**

