

CURRICULUM VITAE

Daniele Di Giovanni

First name: Daniele

Surname: Di Giovanni

E-mail: daniele.digiovanni@unicamillus.org

WORK EXPERIENCE

Researcher at the University of Rome Tor Vergata (2019 – Current)

Researcher in Applied Physics (in Biology and Medicine, Cultural Heritage, Environment) at the Department of Industrial Engineering of the University of Rome "Tor Vergata".

He cooperates with the Chair of Medical Statistics of the same University, teaching and conducting research activities.

Research grant holder at the University of Rome Tor Vergata (2016 – 2018)

Development of projects dealing with CBRNe Safety and Security:

- Development of gap analysis studies, aimed to assess the results of training activities of first responders and advisors called to act in the context of Crisis Management. (Coordinator)
- Coordinator of research projects for the development of integrated systems that includes detection, risk analysis and geo-referencing in innovative devices designed to support first responders work.

Ph.D. at the University of Rome "Tor Vergata" (2013 – 2016)

Ph.D. full grant in Quantum Electronics and Plasmas, at the University of Rome "Tor Vergata".

Thesis work title:

"Feasibility study of a plant for algal biomass use in the production of advanced biofuels"

Tutoring in Physics (2015 - 2016) at the Faculty of Engineering of the University of Rome Tor Vergata.

CRATI (2013 – 2012)

Collaboration with ENI (National Hydrocarbons Society) and CRATI ("Consortium for Research and Technological and Innovative Applications ") on a project for algal biomass employ for the production of second-generation bio-fuels.

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EDUCATION

Ph.D. full grant in Quantum Electronics and Plasmas, at the University of Rome "Tor Vergata", in 2016.

International Post-graduate degree in "Protection against CBRNE events" Degree, at the University of Rome "Tor Vergata" (Faculty of Medicine and Industrial Engineering Dep.), in 2013.

Master's Degree in Environmental Engineering at the University of Rome "Tor Vergata" in 2006.

ADDITIONAL INFORMATION

Founder and President of the Health Safety Environmental Research Association Rome - HESAR (www.hesar.it), organizer, inter alia, of the "1st Scientific International Conference on CBRNe" (www.sicc2017.com).

Course manager for CEPOL, for the courses: "Management of emergency situations ed "Hotspot – Regional focus on migration".

Member of the Directive Board of the "International Master Courses in Protection Against CBRNe Events" (<http://www.mastercbrn.com>)

Member of the Editorial Board of the Springer-Verlag special issue "CBRNe, Cyber Challenges and Counter Efforts", and of the "CBRNe Book Series", Aracne.

Attendee of the 36° COCIM (Civil and Military Cooperation) Course at CASD (Centro Alti Studi per la Difesa), in 2016.

Enrollment in the register of fire prevention professionals (ex art. 16 of Interior Ministry Legislative Decree 8 March 2006, n. 139); number RM28066103754 Jun 20th, 2013.

Enrollment in the Professional Association of Engineers; n. A_28066. Feb. 26th, 2007.

Multilingual: English, French.

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INT.
CONFERENCES

NCT Europe.

Vienna, Austria, June 25th-27th, 2019
(speaker)

1st OPCW Day 2016

The Hague, Netherland, May 2th-4th, 2016
(poster presentation)

3rd International Symposium on Development of CBRN Defence Capabilities. Berlin, Germany, October 19th-21st, 2015
(speaker)

CBRNe Applied Science & Consequence Management World Congress.

Zagreb, Croatia, April 13th-17th, 2015
(speaker)

PARTICIPATION
TO TRAINING
ACTIVITIES

Table Top Exercise (Chemical threat) organized by the Department of Fire Brigade, Public Rescue and Civil Defence and the Department of Public security in collaboration with International Master Course in "Protection against CBRNE events" didactic unit, played on Apr. 19th -20th , 2016, Rome, Italy. (organizer)

Workshop "Protection of CBRN facilities: EU and Serbia share best practices on their CBRN Action Plans", from 3rd - 4th Feb. 2016, at the Joint Research Centre EU, (Global Security and Crisis Management Unit), Ispra, Italy. (observer)

Drill Exercise (Chemical threat) organized by the Department of Fire Brigade, Public Rescue and Civil Defence and the Department of Public security in collaboration with International Master Course in "Protection against CBRNE events" didactic unit, played on Mar. 16th -18th , 2015, Rome, Italy. (organizer)

Table Top Exercise (Radiological threat) organized by the Department of Fire Brigade, Public Rescue and Civil Defence and the Department of Public security, played on Nov. 24th-26th, 2014, Palermo, Italy. (observer)

Table Top Exercise (Biological threat) organized by the Department of Fire Brigade, Public Rescue and Civil Defence and the Department of Public security, played on Jun. 23rd-25th, 2014, Bari, Italy. (observer)

Table Top Exercise played on Jen. 15th-17th, 2014, in the project "Strengthening CBRN-response in Europe by enhancing on-site cooperation between safety and security organizations: an Italian pilot". CBRN Master and Italian National Corp of Firefighters, Rome, Italy. (observer)

SCIENTIFIC
PUBLICATIONS

A Review of its Use in History to Perpetrate Chemical Offenses

Alba Iannotti, Igino Schraffl, Carlo Bellecci, Andrea Malizia, Orlando Cenciarelli, Daniele Di Giovanni, L. Palombi & Pasquale Gaudio
(2016) Weapons of Mass Destruction:, Defence S&T Technical Bulletin, Vol. 9, Num. 1, pp. 39-52, ISSN 1985-6571

Testing the accuracy ratio of the Spatio-Temporal Epidemiological Modeler (STEM) through Ebola hemorrhagic fever outbreaks

F. Baldassi, F. D'Amico, M. Carestia, O. Cenciarelli, S. Mancinelli, F. Gilardi, A. Malizia, D. Di Giovanni, P. M. Soave, C. Bellecci, P. Gaudio and L. Palombi

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(2016) *Epidemiol. Infect.* (2016), 144, 1463–1472.
doi:10.1017/S0950268815002939

Evaluation and Gap Analysis tool for performance benchmarking in CBRNe Table Top Exercise emergency response management

Cacciotti, I, Di Giovanni, D, Pergolini, P, Malizia, A, Carestia, M, Palombi, L, Bellecci, C, Gaudio P
(2015) *Safety Science* (Under revision)

Comparison of three sample preparation methods for analysis of chemical warfare agent simulants in water

A.Sassolini, A. Malizia, F. D'Amico, O. Cenciarelli, M. Carestia, D. Di Giovanni, L. Palombi, M. Guidotti, C. Bellecci, P. Gaudio
(2015) *Malaysian Journal of Analytical Sciences*, Vol 19 No 3 (2015): 603 – 610.

SX34 and the decontamination effects on chemical warfare agents (CWA)

L. Palestini, G. Binotti, A. Sassolini, A. Malizia, O. Cenciarelli, L. Di Gianbernardino, F. D'amico, D. Di Giovanni, M. Carestia, R. Bonora, S. Miorotti, A. Costagliola Di Fiore, F. M. Orecchio, J. F. Ciparisse, L. A. Poggi, L. Palombi, C. Bellecci, P. Gaudio.
(2015) *WSEAS Transactions on Environment and Development*, ISSN / E-ISSN: 1790-5079 / 2224-3496, Volume 11, 2015, Art. #22, pp. 201-206

A review of techniques for the detection of biological warfare agents

G. Ludovici, V. Gabbarini, O. Cenciarelli, MALIZIA A., A. Tamburrini, S. Pietropaoli, M. Carestia, M. Gelfusa, A. Sassolini, D. Di Giovanni, L. Palombi, C. Bellecci, P. Gaudio
(2015). *DEFENCE S & T TECHNICAL BULLETIN*, vol. 8, Issue 1, Pages 17-26, ISSN: 1985-6571

Ebola virus disease 2013-2014 outbreak in West Africa: An analysis of the epidemic spread and response.

O. Cenciarelli, S. Pietropaoli, MALIZIA A., M. Carestia, F. D'Amico, A. Sassolini, D. Di Giovanni, Rea S., Gabbarini V., Tamburrini, L. Palombi, C. Bellecci, P. Gaudio
(2015). *International Journal of Microbiology*, Volume 2015, 2015, Article number 769121

The Importance of Forensic Microbiology in CBRNe Investigations

G.M. Ludovici, O. Cenciarelli, M. Carestia, A. Malizia, A. Tamburrini, V. Gabbarini, A. Sassolini, D. Di Giovanni, S. Mancinelli, L. Palombi, P. Gaudio, C. Bellecci & T. Rinaldi
(2015) *BULETIN TEKNIKAL S&T PERTAHANAN JILID*, Vol. 8, n.2, pp. 153-161

Viral bioterrorism: Learning the lesson of Ebola virus in West Africa 2013–2015

Cenciarelli, O, Gabbarini, V, Pietropaoli, S, Malizia, A, Tamburrini, A, Ludovici, G, Carestia, M, Di Giovanni, D, Sassolini, A, Palombi, L, Bellecci, C, Gaudio, P
(2015) *Virus Research*

Design of a new experimental facility to reproduce LOVA and LOCA consequences on dust resuspension

Malizia, A., Gelfusa, M., Francia, G., Boccitto, M., Del Vecchio, M., Di Giovanni, D., Richetta, M., Bellecci, C., Gaudio, P.
(2014) *Fusion Engineering and Design*, . Article in Press.

The free license codes as decision support system (DSS) for the emergency planning to simulate radioactive releases in case of accidents in the new generation energy plants

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Malizia, A., Carestia, M., Cafarelli, C., Milanese, L., Pagannone, S., Pappalardo, A., Pedemonte, M., Latini, G., Barlascini, O., Fiorini, E., Soave, P.M., Di Giovanni, D., Cenciarelli, O., Antonelli, L., D'Amico, F., Palombi, L., Bellecci, C., Gaudio, P. (2014) WSEAS Transactions on Environment and Development, 10 (1), pp. 453-464.

New frontiers of safety and security: Chemical, Biological, Radiological, Nuclear, explosive events

A. Malizia, V. Cusmai, V. Rossi, T. Labriola, E. Farrugia, F. Campopiano, F. Salerno, V. Trombadore, L. Cadoni, G. Rezza, R. Fantoni, S. Sandri, M. Chiappini, A. Gucciardino, F. D'Amico, C. Russo, D. Rothbacher, M. Carestia, D. Di Giovanni, O. Cenciarelli, C. Perrimezzi, I. Palombi, C. Bellecci, P. Gaudio. (2014) Speciale: ENEA Technologies for security. Enea EAI. DOI: 10.12910/EAI2014-99.

Building a Chemical, Biological, Radiological, Nuclear, explosive events Tech Advisor and First Responders to support top decision makers during emergencies

L. Palombi, C. Bellecci, A. Malizia, V. Cusmai, V. Rossi, T. Labriola, E. Farrugia, F. Campopiano, F. Salerno, V. Trombadore, L. Cadoni, G. Rezza, R. Fantoni, S. Sandri, M. Chiappini, A. Gucciardino, F. D'Amico, D. Rothbacher, M. Carestia, D. Di Giovanni, O. Cenciarelli, C. Russo, C. Perrimezzi, P. Gaudio. (2014) Speciale: ENEA Technologies for security. Enea EAI. DOI: 10.12910/EAI2014-101.

Maritime Security: Applications and Perspectives to Combat Chemical, Radiological and Explosive Threats

F. Pirelli, O. Cenciarelli, V. Gabbarini, A. Malizia, G. Famà, A. Sassolini, F. D'Amico, D. Di Giovanni, M. Carestia, L. Palombi, C. Bellecci & P. Gaudio (2014). DEFENCE S & T TECHNICAL BULLETIN, vol. 7, Issue 2, Pages 90-98, ISSN: 1985-6571

Biological Emergency Management: The Case of Ebola 2014 and the Air Transportation Involvement

O. Cenciarelli, S. Pietropaoli, L. Frusteri, MALIZIA A., M. Carestia, F. D'Amico, A. Sassolini, D. Di Giovanni, A. Tamburrini, L. Palombi, C. Bellecci, P. Gaudio (2014). JOURNAL OF MICROBIAL & BIOCHEMICAL TECHNOLOGY, vol. 6; p. 247-253.

Simulation of 137CS radioactive contamination due to an accident in a biomass plant for energy production: the importance of Decision Support System (DSS) in the emergency planning.

Malizia A., C. Cafarelli, L. Milanese, S. Pagannone, A. Pappalardo, M. Pedemonte, D. Di Giovanni, M. Carestia, O. Cenciarelli, F. D'Amico, L. Palombi, C. Bellecci, P. Gaudio. (2014). 7th International Conference on Environmental and Geological Science and Engineering (EG '14), WSEAS CONFERENCE. Salerno 3-5 June 2014. Latest Trends in Energy, Environment and Development. ISBN: 978-960-474-375-9. Pp. 308-314

Two realistic scenarios of intentional release of radionuclides (Cs-137, Sr-90) - the use of the HotSpot code to forecast contamination extent

Di Giovanni, D., Luttazzi, E., Marchi, F., Latini, G., Carestia, M., Malizia, A., Gelfusa, M., Fiorito, R., D'Amico, F., Cenciarelli, O., Gucciardino, A., Bellecci, C., Gaudio, P. (2014) WSEAS Transactions on Environment and Development, 10, pp. 106-122. Cited 1 time.

Evaluation of the effectiveness of titanium dioxide (TiO₂) self-cleaning coating for increased protection against CBRN incidents in critical infrastructure.

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Alessandro Sassolini, MALIZIA A., Fabrizio D'Amico, Mariachiara Carestia, Daniele Di Giovanni, Orlando Cenciarelli, Carlo Bellecci & Pasquale Gaudio (2014). DEFENCE S & T TECHNICAL BULLETIN, vol. 7, Issue 1, Pages 9-17, ISSN: 1985-6571

Simulation of caesium-137 (^{137}Cs) local diffusion as a consequence of the Chernobyl accident using hotspot

Cacciotti, I., Aspetti, P.C., Cenciarelli, O., Carestia, M., Di Giovanni, D., Malizia, A., D'Amico, F., Sassolini, A., Bellecci, C., Gaudio, P.
(2014) Defence S and T Technical Bulletin, 7 (1), pp. 18-26. Cited 2 times.

SIGN

A handwritten signature in black ink, reading "Daniele Di Giovanni". The signature is written in a cursive style with a large initial 'D'.

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