

CURRICULUM VITAE

SURNAME AND NAME	CLERICO MARINA
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Nationality	ITALIANA
Birth date	11/08/1960

Italian/National Scientific habilitations obtained

Academic Recruitment Field	Level
08/A2	II

Academic Position

Qualification/Title	Confirmed assistant professor
University	POLITECNICO DI TORINO
Department	DIATI
Academic Recruitment Field	08/A2
Academic Discipline	ING-IND/28

Working experience

Dates (from .. to..)	from 1993 to date
Name and address of the Employer	POLITECNICO DI TORINO
Position held	Confirmed assistant professor of DIATI
Main activities/responsibilities	Research (summary of the research topics of the last 5 years) <ul style="list-style-type: none">• Analysis of Environmental and occupational safety The researches focus on the analysis of environmental and occupational safety and on the issues deriving by the tight connection between the two aspects. From the environmental safety point of view, the research is focused on the local and global consequences of different anthropic activities in terms of resources, emissions and environmental impacts. At the same time, the safety and health of workers, the hazard factors and risk assessment in correlation with production cycles and with the surrounding environment features are also addressed.• Risk Analysis and Preventive safety design Participation to projects for the realization of plant prototypes and analysis of the consequent issues in guaranteeing occupational safety and minimizing environmental impact starting from correct design. In this research field there is a partnership in the frame of an European Project for a renewable bio.gas energy power, aiming to ensure safety standards

	<p>starting from early design stages to building and operational phases.</p> <p>Teaching (main teaching activities as 'aggregate' professor)</p> <ul style="list-style-type: none"> • Professor of 'Safety and legislation of environment and land' from 2013 to date • Professor of 'Safety in work sites' from 2001 to 2013 • Professor of 'Fire prevention engineering' from 2009 to 2011 <p>Organization:</p> <ul style="list-style-type: none"> • Coordination of the environmental and occupational safety research group of the DIATI – Politecnico di Torino, including technicians, post doctorate researchers, PhD students and research fellows • Responsible for the research and teaching laboratories of Environmental Safety, Occupational Safety, Fire-prevention Engineering • Coordinator of the DIATI safety commission.
Dates (from .. to..)	from 1990 to 1993
Name and address of the Employer	POLITECNICO DI TORINO
Position held	Assistant professor of DIATI
Main activities/responsibilities	Theoretical and experimental research: Analysis and study of the airblast, environmental and occupational noise in opencast mines and underground site civil works.
Dates (from .. to..)	from 1989 to 1990
Name and address of the Employer	CNR – 'Mining studies center' (TO)
Position held	Postdoctoral research fellow
Main activities/responsibilities	Theoretical and experimental research on "Improving the recovery of mineral resources".
Dates (from .. to..)	from 1986 to 1987
Name and address of the Employer	MODULO UNO srl (noise engineering and consulting private company included in the national Italian register of highly qualified laboratories)
Position held	Engineering consultant
Main activities/responsibilities	Noise evaluation and acoustic design: assessment of the environmental noise and exposure conditions of the employees, personally coordinating both the measurement campaigns and the subsequent analysis, data processing and interpretation.

Education and Training

Date	1990
Institution which issued the degree	POLITECNICO DI TORINO
Type of Degree awarded	PhD in 'Engineering of underground resources' Thesis: "Study of the peak sound pressure level generated by opencast blasting"
Date	1986
Institution which issued the degree	POLITECNICO DI TORINO
Type of Degree awarded	Master of Science's Degree in 'Mining Engineering' Thesis: "Study of the noise in mining excavation"

Coordination and management of the research groups

DESCRIPTION	FROM	TO
Head of Environmental and Occupational Safety Group of DIATI – Politecnico di Torino	Oct 2018	today
Head of Environmental Safety Group of Diati – Politecnico di Torino	2014	Sept 2018
Member of the research group participating in the call "PRIMA CALL 2019 SECTION 1: RIA Sustainable groundwater management in water-stressed Mediterranean areas.	01/12/2018	01/07/2019
Coordinator of the Politecnico di Torino Working Group on "Evaluation and management of FAV - Glass Artificial Fibres".	19/12/2017	today
National coordinator of the WG n.15 "The Underground and the Environment" of the ITA - International Tunnelling Association;.	01/01/2000	01/03/2002

Scientific responsibility of competitive National and International research projects

Scientific manager WG DIATI Politecnico di Torino: H2020-EU.3.3.8.1 - GRANT AGREEMENT 671470 - "DEMOSOFC (DEMONstration of large SOFC system fed with biogas from WWTP)" Funding: 4.2MILLIONE	20/07/2015	Today
Scientific manager WG DIATI of the Politecnico di Torino: ID FA 264-239 - "ENSESBID: Energy Self Sustainable Biomass Dryer / microcogeneration with wood biomass and wood transforming system for energy autosufficient" - Funding: 12250€	31/07/2014	22/01/2016
Participant in the research programme (local partner) PRIN 1999 - Protocol 9909325822_001 - "Extractive activities for stony materials in safety conditions and eco-compatibility" - Coord.GECHELE Giulio - Politecnico di TORINO	26/11/1999	20/12/2001

Scientific responsibility of research projects, ruled through partnership agreements with companies and public private bodies

Execution of the noise exposure risk assessment pursuant to articles 190 and 191 of Legislative Decree 81/08 of the SMAT S.p.A workers. Contractors: SMAT S.p.A. – TORINO. Funding: € 59,000.00	12/02/2020	Present
Contract: Update of the Risk Assessment Document. Role: Head of the scientific group DIATI - Politecnico di Torino. Contractor: SMAT S.p.A. - TORINO. Funding: € 140,000.00	05/07/2017	Present
Contract: Assessment of acoustic climate and forecast evaluation of compliance with passive acoustic requirements of buildings for the construction of two civil buildings "building A" and "building B" in via Leonardo da Vinci, Condove (TO). Customer: Iamonte Oscar, costruzioni edili.	01/03/2017	31/03/2017
Contract: Activity for the assessment of specific risks (chemical and/or carcinogenic) in relation to the emission of artificial glass fibres relative to the CPTV of Turin and appurtenances. Client: RAI-Radio Televisione Italiana. Funding: € 28,000.00	03/11/2016	28/02/2017
Contract: Analysis of the flue pipe of the thermal plant in the phase of removal for verification of material presence. Client: RAI-Radio Televisione Italiana.	01/10/2016	30/11/2016
Contract: Airborne dust concentration measurements in the workplace, noise measurements in the workplace and monitoring of	13/05/2015	13/05/2016

airborne particulates PM10 and PM2.5. Client: SIMAR SRL. Financing: € 14,000.00		
Contract: Assessment of noise risk related to the CPTV of Turin and appurtenances. Client: RAI-Radio Televisione Italiana. Research group composed of: n. 4 people. Funding: € 18,000.00	20/10/2014	20/07/2015
Contract: FMEA nitrogen plant and management optimization - Manual in use update. Client: Societa' Metropolitana Acque Torino. Financing: € 10,000.00	09/07/2014	09/07/2015
Contract: Acoustic classification of the municipality of Condove. Client: Municipality of Condove. Funding: € 2,000.00	11/12/2014	11/03/2015
Contract: Assessment of the current PCA of the acoustic congruity assessment of ththe structural variant of the PRGC of Chiusa San Michele. Customer: Municipality of Chiusa S. Michele. Funding: € 2,600.00	05/02/2013	05/05/2013
Contract: Castiglione Torinese sludge thermal drying plant: investigation and analysis activities for the optimisation of operating temperatures and the relative adaptation of operating manual and management optimisation of nitrogen plant for inertisation. Customer: SMAT S.p.A. – TORINO. Funding: € 10,300.00 -	10/05/2011	10/09/2011
Contract: Second thermal drying system mud depuration system smat of Castiglione Torinese. Client: TORRICELLI SRL. Funding: € 15,000.00 -	03/02/2010	03/02/2011
Contract: Municipal acoustic renovation plan and connecting problems. Client: Municipality of Rubiana. Funding: € 3,000.00	09/07/2008	09/07/2009
Contract: Municipal acoustic renovation plan including the acoustic congruity related to the new PRGC configuration. Customer: Municipality of Vaie. Funding: € 4,400.00	09/07/2008	09/07/2009
Contract: Municipal acoustic renovation plan including the acustic congruity related to the new PRGC configuration. Client: Municipality of S. Ambrogio. Funding: € 7,300.00	09/07/2008	09/07/2009
Contract: Monitoring airborne PTS in the area of the construction site Spina 4 via Cigna Torino. Client: BEGNINI SPA. Funding: € 4,286.38	28/05/2009	31/05/2009
Contract: Monitoring airborne PTS in the area of the construction site Spina 4 via Cigna Torino. Client: COOPERATIVE COMPANY OF MARGHERITA BUILDING. Financing: € 3,481.81	28/05/2009	31/05/2009
Contract: Monitoring airborne PTS in the area of the construction site Spina 4 via Cigna Torino. Client: MONVISO COOPERATIVE COMPANY. Financing: € 3,481.81	28/05/2009	31/05/2009
Contract: Municipal acoustic renovation plan and connecting problems. Client: Municipality of Bussoleno. Funding: € 4,000.00	11/02/2008	11/02/2009
Contract: Monitoring airborne PTS in the area of the construction site Spina 4 via Cigna Torino. Client: Golder Associates s.r.l. Funding: € 99,500.00	11/10/2007	31/12/2008
Contract: Municipal acoustic renovation plan and environmental security problematics. Client: Municipality of Bruzolo. Funding: € 2,750.00	11/10/2007	11/10/2008
Contract: Municipal acoustic renovation plan and environmental security problematics. Client: Municipality of San Didero. Funding: € 2,750.00	19/09/2007	19/09/2008
Contract: Municipal acoustic renovation plan and connecting problems. Client: Municipality of Chianocco. Funding: € 1,400.00	17/09/2007	17/09/2008
Contract: Municipal acoustic renovation plan and connecting	12/09/2007	11/09/2008

problems. Client: Municipality of Villar Focchiardo. Funding: € 2,083.00		
Contract: Assessment of noise climate in via Torino in municipality of Sant'Antonino di Susa and in via Moncenisio in municipality of Condove. Customer: IAMONTE S.R.L. Funding: € 3,800.00	16/10/2006	16/01/2007
Contract: Noise assessments in the construction site. Client: ECOSOL S.R.L. Financing: € 800.00	22/04/2005	22/07/2005
Contract: Acoustic impact assessments of the polyvalent centre of bussoleno. Client: Municipality of Bussoleno. Funding: € 3,400.00	15/12/2004	15/03/2005
Contract: Evaluation of the acoustic conditions of the areas in proximity of corso Europa. Client: Municipality of Avigliana. Financing: € 5,000.00	10/04/2003	10/06/2003

A dynamic document of riskassessment (DVR) management product has been developed within the occupational safety research group based on methods of source analysis of environmental and occupational risks. This product has reached level 6 of TRL scale due to the verification of its application in SMAT industrial environment. Based on this product has been developed a proposal for an innovative startup called Cassandra. The initial product has been expanded by creating several modules that deal with managing different areas of occupational safety. The modules are responsible for managing the following areas: DVR, training of workers, DVR on planimetry, accidents on planimetry, PPE and equipment, management of activities on transport and distribution networks, health conditions, dynamics of exposure to risks. The product is in compliance with ISO 45001. This structure was recognized as an innovative spin-off by I3P - Incubator of Innovative Enterprises of the Politecnico following the pitch on 04/07/2019.

Participation in journal editorial board, book series, encyclopedias and essays of recognised prestige

DESCRIPTION	DAL	AL
Referee for the conference Science and the Future 2	12/11/2018	<i>Today</i>
Referee for Journal Safety Science	08/01/2018	<i>Today</i>
Member of the Comitato Editoriale of the GEAM Journal-Geoengineering Environment and Mining	01/12/2016	<i>Today</i>
Referee for the GEAM journal	07/07/2005	<i>Today</i>
Referee for the conference Science and the Future	28/10/2013	31/07/2014

Participation in international conference as invited public speaker and member of the scientific committee (last ten years)

DESCRIPTION	DAL	AL
Co-organizer, scientific committee member and chair of the "Science and the Future 2" scientific conference	12/11/2018	16/11/2018
Pognant F., Bo, M. e Clerico M. "Modelling and evaluation of emission scenarios deriving from wood biomass in alpine valley". Harmo18 18th International Conference on harmonization within atmospheric dispersion modelling for regulatory purposes. Bologna (Italia)	09/10/2017	12/10/2017
Bo M., Clerico, M. e Pognant F. "Application of risk analysis to improve environmental sustainability of forest yards in wood-energy chain". International conference on environment and renewable energy. Vienna (Austria).	20/05/2015	21/05/2015

Co-organizer, scientific committee member and chair of the "Science and the Future" scientific conference	28/10/2013	31/10/2013
Chiocchia G., Clerico M, Salizzoni P. e Marro M. "Impact assessment of a railway noise in an alpine valley". 10ème Congrès Français d'Acoustique. Lyon (France)	12/04/2010	16/04/2010

Institutional offices and roles in the Governing bodies of universities.

DESCRIPTION	FROM	TO
Representing member of the Teaching Unit in the Joint Committee on Education of the Politecnico di Torino	2019	<i>Today</i>
Worker Safety Representatives at the Politecnico di Torino (under the Italian Legislative Decree 81/08)	/	<i>Today</i>

Institutional offices in teaching and research structures of Universities.

DESCRIPTION	FROM	TO
Effective member of the Doctorate Board of 'Management, Production and Design'	2019	<i>Today</i>
Invited member of the Doctorate Board of 'Management, Production and Design'	2014	2019
Aggregate Professor holding teaching assignments on a continuous basis from the academic year 2001-2002 to the present day covering courses on topics related to the research arguments developed by the writer and related to the SSD	2001	<i>Today</i>
Effective member of the Training area council of the Bachelor's Degree Course and Master's Degree in Environmental and Land Engineering of the Politecnico di Torino	1993	<i>Today</i>
Research team assigned by the Politecnico di Torino to the CNR Study Centre for the Physics of Rocks and Geotechnologies, now secondary seat of the Institute of Geosciences and Georisources of Turin at DIATI (Politecnico di Torino)	01/01/1988	<i>Today</i>

Management roles in Universities, as part of Faculty duties.

DESCRIPTION	FROM	TO
Manager of DIATI Research Lab for Occupational Safety	2018	<i>Today</i>
Safety Commission Coordinator of the DIATI Department of the Politecnico di Torino	08/01/2017	<i>Today</i>
Manager of DIATI didactic and experimental Lab of Environmental Safety	/	<i>Today</i>
Manager of DIATI didactic and experimental fire safety Lab	/	<i>Today</i>
Nominated member of the "Working Group in support of the Politecnico's Prevention and Protection Service on specific technical, IT and organisational issues" by Rectoral Decree no. 282/2013.	29/07/2013	<i>Today</i>
Nominated member of the "Permanent and open working group for the definition of the Guidelines for Safety of the Politecnico di Torino" by Rectoral Decree n.23 of 24/01/2008	24/01/2008	29/07/2013

List of all the significant publications (last fifteen years)

- Bo, M., Clerico, Charvolin-Volta, P., Nguyen, C.V., Pognant, F., Soulhac, L., Salizzoni P.. Urban air quality and meteorology on opposite sides of the Alps: the Lyon and Torino case studies. *Urban Climate*, vol 34, ISSN: 22120955, doi: 10.1016/j.uclim.2020.100698.
- Bo, M., Salizzoni, P., Pognant, F., Mezzalama, R., Clerico. A combined citizen science – modelling approach for NO₂ assessment in the Torino urban agglomeration. *Atmosphere*, vol. 11 (7), ISSN: 20734433, DOI: 10.3390/atmos11070721.
- Bo, M., Mercalli L., Pognant, F., Cat Berro, D., Clerico, M., 2020. Urban Air Pollution, Climate Change and Wildfires: The Case Study of an Extended Forest Fire Episode in Northern Italy. *ENERGY REPORTS*
- Bo, M., Clerico, M., Pognant, F., 2019. Assessment of Indoor Mass and Numerical Concentrations of airborne particulate matter in a University Fluid Dynamics Laboratory. *GEAM Geingegneria ambientale e mineraria*. vol. 157. ISSN 1121-9041
- Clerico, M., Bo, M., Pognant, F Method for environmental impact assessment of human-induced small-medium activities: the case study of wood biomass supply chain. (2019). In *E3S Web of conference*. Proceedings: vol. 19, Science and The Future 2 - Contradictions and challenges. Torino, 12-16 November 2018.
- Pognant, F., Bo, M., Nguyen, C. V., Salizzoni, P., Clerico, M. (2018). *Design, modelling and assessment of emission scenarios resulting from a network of wood biomass boilers*. *Environmental Modeling & Assessment*, vol. 23, p. 157-164, ISSN: 1420-2026, doi: 10.1007/s10666-017-9563-5
- Demichela M., Baldissone G., Clerico M. (2018). *Major risk accident scenarios and the related H&S management in living and working environments. Old problems and new challenges*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. 154, p. 59-63, ISSN: 1121-9041
- Bo, M., Salizzoni, P., Clerico, M., Buccolieri, R. (2017). *Assessment of indoor-outdoor particulate matter air pollution: A review*. *ATMOSPHERE*, vol. 8, p. 136-153, ISSN: 2073-4433, doi: 10.3390/atmos8080136
- Zucchetti, M., Clerico, M., Giunti, L., Mercalli, L., Poggio, A., Ponti, M., Tartaglia, Angelo, Ulgiati, S. (2017). *The Turin-Lyon High-Speed Rail: A Technical Assessment*. *International Journal Of Ecosystems And Ecology Science*, vol. 7, p. 141-148, ISSN: 2224-4980
- Pognant, F., Bo, M., Nguyen, C. V., Salizzoni, P., Clerico, M. (2017). *Modelling and evaluation of emission scenarios deriving from wood biomass in alpine valley*. In: *Harmo18 18th International Conference on harmonization within atmospheric dispersion modelling for regulatory purposes*. Proceedings. vol. 2017, p. 278-282, CNR Research Area Bologna, Bologna, 9-12 Ottobre 2017
- Bo, M., Clerico, M., Pognant, F. (2016). *Annoyance and disturbance hazard factors related to work and life environments: a review*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. 149, p. 27-34, ISSN: 1121-9041
- Bo, M., Clerico, M., Pognant, F. (2016). *Parametric method for the noise risk assessment of Professional orchestral musicians*. *NOISE & HEALTH*, vol. 18, p. 319-328, ISSN: 1463-1741
- Bo, M., Clerico, M., Pognant, F. (2015). *Analytical method for environmental data representativeness of a territory*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. 144, p. 5-14, ISSN: 1121-9041
- Bo, M., Clerico, M., Pognant, F. (2015). *Cone-calorimeter tests of rice dusts explosiveness [Prove al cono-calorimetro di esplosività delle polveri di riso]*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. 146, p. 15-22, ISSN: 1121-9041
- Clerico, M., Giunti, L., Tartaglia, A., Ulgiati, S., Zucchetti, M. (2015). *Railway related impacts: The Turin-Lyon high-speed rail case*. *Fresenius Environmental Bulletin*, vol. 24, p. 1887-1895, ISSN: 1018-4619
- Bo, M., Clerico, M., Pognant, F. (2015). *Application of risk analysis to improve environmental sustainability of forest yards in wood-energy chain*. In: *International scientific Journal of environmental science*. vol. 4 (2), ISBN: 9781514169551, Vienna (Austria), 20-21 May 2015
- Bo, M., Clerico, M., Pognant, F. (2014). *Forest yard's safety: a methodological approach for the analysis of occupational risk*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. 143, p. 25-34, ISSN: 1121-9041
- Clerico, M., Pognant, F. (2013). *Feasibility criteria of photovoltaic noise barriers (PVNB)*. *GEAM. Geingegneria Ambientale E Mineraria*, vol. Volume 140, p. 35-42, ISSN: 1121-9041
- Pizzo, G., Clerico, M. (2012). *Safety health impacts of particulate matter from excavation work sites*. *American Journal Of Environmental Sciences*, vol. 8, p. 466-472, ISSN: 1553-345X, doi: 10.3844/ajesp.2012.466.472

- Pizzo, G., Clerico, M. (2011). *Particulate matter in the excavation work sites in urban areas*. American Journal Of Environmental Sciences, vol. 7, p. 499-504, ISSN: 1553-345X, doi: 10.3844/ajessp.2011.499.504
- Chiocchia, G., Clerico, M., Salizzoni, P., Marro, M. (2010). *Impact assessment of a railway noise in an alpine valley*. In: Atti di convegno. p. 1-6, ISBN: 9782952110594, Lyon (France), aprile 2010
- Clerico, M., Cantore, Fabio (2009). *La gestione territoriale dell'inquinamento generato dal traffico veicolare*. In: Atti di convegno. p. 1-4, Ischia (NA), 23-25 sett 2009
- Clerico, M. (2008). *VALUTAZIONE TECNICA AMBIENTALE: RUMORE. Monografia vol. UNICO*, p. 1-250, Torino: Politeko Edizioni, ISBN: 9788887380651
- Clerico, M. (2008). *Politiche di prevenzione e controllo delle attività rumorose. Il ruolo degli Enti Locali*. In: Strumenti per la sicurezza. I regolamenti comunali per il controllo e la vigilanza del territorio comunale. Torino: Regione Piemonte, Villa Gualino Torino, Febbraio 2008
- Clerico, M. (2007). *VALUTAZIONE TECNICA AMBIENTALE. Monografia vol. UNICO*, Torino: POLITEKO, ISBN: 9788887380736
- Clerico, M., Cantore, F. (2006). *Acoustic Monitoring, the sample of mountain community down Susa Valley and Cenischia Valley*. In: 33rd International Acoustics Conference, European Acoustics Association (EAA) Symposium. p. ID_ 011-ID_015, ZVOLEN: Publishing House of the Technical University, ISBN: 9788022816731, High Tatras, Slovakia, 4-6 october 2006
- Clerico, M., Pizzo, G. (2006). *Structure of the environmental analysis in the management of the infrastructure works*. In: Mine planning and equipment selection 2006. vol. 2, p. 810-815, Galliate (NO): Fiordo srl, ISBN: 9788890134241, Torino, Italy, 20-22 september 2006
- Clerico, M., Soffredini, G. (2006). *The acoustical improvement plan as a process to re-establish acceptable acoustical conditions*. In: Geo-environment and landscape evolution II. p. 33-42, Southampton: WIT Press, ISBN: 9781845641689, Rhodes (Greece), June 2006
- Clerico, M., Soffredini, G. (2005). *Le Barriere Verdi come strumenti di attenuazione del Rumore e di Sviluppo Sostenibile*. In: Atti di convegno. vol. unico, p. 217-220, ISBN: 8888942092, giugno
- Clerico, M., Pizzo, G. (2005). *Management of noise in the case of infrastructure works*. In: Sustainable Development and Planning II. vol. 1, p. 377-386, Southampton: WIT Press, ISBN: 9781845640255, Bologna, 12-14 Sep 2005

Indicators related to overall scientific production – In accordance with art n. 4 of the notice of competition

Total number	The overall Hirsch index (H-index).	Database source (author ID...)
90	4	GOOGLE SCHOLAR
75	4	SCOPUS (SCOPUS: Author ID: 24309898800)
47	3	WEB OF SCIENCE

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