

PERSONAL INFORMATION	Mara - Lombardi	
CURRENT POSITION	Associate Professor at "Sapienza" - University of Rome	
RESEARCH TOPICS / EXPERIENCES	<ul style="list-style-type: none"> ▪ Fire Safety Engineering ▪ Geostatistical analysis and modeling ▪ RAMS Approach ▪ Risk and Resilience Analysis ▪ Road and Rail Safety ▪ Occupational Safety ▪ Critical Infrastructures 	
KEYWORDS	Safety, Risk Analysis, Fire Safety engineering, geostatistical analysis, RAMS, Road and Rail Safety	
SCIENTIFIC / TECHNICAL QUALIFICATION (source: Scopus)	▪ H-index	▪ 15
	▪ No. publications (relevant with respect to the "KEYWORDS"):	▪ 81
	▪ No. citations	▪ 671

EDUCATION AND TRAINING

2009/04/03	PhD Materials and Raw Materials Engineering (XXI cycle), Faculty of Civil and Industrial Engineering, Sapienza University of Rome. Title of final dissertation: Risk analysis and management for rail and road tunnel
2004/12/20	Degree Faculty of Civil and Industrial Engineering, Sapienza University of Rome. Title of final dissertation: Reliability analysis of safety conditions and hold of saline cavities for extraction and storage

WORK EXPERIENCE

since 2019/12/30	Associate Professor (SSD ING-IND/28)
	Sapienza University of Rome
since 2010/11/02	Researcher (SSD ING-IND/28)
	Sapienza University of Rome
since 2010/01/02	Research Fellow
	Sapienza University of Rome

MAIN ROLES AND RESPONSIBILITIES

From 2022/03/29	▪ Scientific Board Member of INAIL
From 2021/12/24	▪ Member of Standing Committee of road tunnels established at ANSFISA
From 2021/06/24	▪ Director of the Board of Directors of ASTRI SOCIETY
From 2021/04/27	▪ Member of the Central Technical-Scientific Committee for fire prevention
From 2018/10/02	▪ Expert member of the regional Technical Advisory Committee for Fire Prevention in Lazio
From 2018	▪ Scientific Board Member of Master Ingegneria delle Infrastrutture e dei Sistemi Ferroviari
From 2017	▪ Scientific Coordinator Research Committee “Fire Safety Engineering according to Prevention Fire Code”, Sapienza, INAIL, CNVvF
From 2017	▪ Scientific Board Member Facoltà di Ingegneria Civile e Industriale Sapienza (IC) – Corpo Nazionale dei Vigili del Fuoco (CNVvF)
From 2017	▪ Chair of the Safety and Civil Protection Engineering Program, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2016 To 2017	▪ Research Grant Tutor “Analisi di rischio dell’incidentalità stradale con metodi di analisi statistica per il trattamento dei dati”, DICMA, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2015	▪ Scientific Coordinator of Specialization Courses in Occupational Safety, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2015	▪ Responsible for Academic Mobility (RAM) for Safety and Civil Protection Engineering Master Degree, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2013 To 2019	▪ Member of Doctoral Board “Ingegneria Elettrica, dei Materiali delle Tecnologie e delle nanotecnologie (XXIX ciclo, XXXIII ciclo e XXXIV ciclo)”, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2012 To 2013	▪ Member of Doctoral Board “Ingegneria dei Materiali delle Tecnologie e dei Sistemi Industriali Complessi (XXVIII ciclo)”, Facoltà di Ingegneria Civile e Industriale Sapienza
From 2011 To 2012	▪ Member of Doctoral Board “Ingegneria dei Materiali e delle Materie Prime (XXVII ciclo)”, Facoltà di Ingegneria Civile e Industriale Sapienza

SERVICE TO NATIONAL AND INTERNATIONAL COMMUNITY

From 2018	▪ Coordinator of “Workers Safety in Civil Engineering Committee” Engineering Association of Mediterranean Countries (EAMC)
From 2018	▪ Member of Regional Technical Committee (CTR) Ministero dell’Interno, Dipartimento Dei Vigili Del Fuoco, Del Soccorso Pubblico E Della Difesa Civile Direzione Regionale Lazio
From 2018 To 2020	▪ President Réseau Méditerranéen des Ecoles d’Ingénieurs – Ecole Centrale Marseille 38, rue Joliot-Curie 13451 MARSEILLE cedex 13 FRANCE
From 2015	▪ Member of International Scientific Advisory Committee “6th International Conference on Safety and Security Engineering – SAFE 2015” Wessex Institute of Technology (WIT)

From 2015 To 2017	▪ Member of Scientific Board International Journal of Safety and Security Engineering (WIT Press) Wessex Institute of Technology (WIT)
From 2013	▪ Member of International Scientific Advisory Committee “5th International Conference on Safety and Security Engineering – SAFE 2013” Wessex Institute of Technology (WIT)
From 2004 To 2007	▪ Member of Sapienza Working Group (WG2) TC C.3.3 PIARC « Italian risk analysis for road tunnels » PIARC – World Road Association

TEACHING EXPERIENCE

From 2022	SALUTE E SICUREZZA SUI LUOGHI DI LAVORO (cod.: AAF1823) 29909-INGEGNERIA ENERGETICA [L-270 - Ordin. 2019] - L-9 INGEGNERIA CIVILE E INDUSTRIALE
From 2022 To 2023	ANALISI DEI RISCHI E SICUREZZA DEI CANTIERI INGEGNERIA DELLA SICUREZZA PER IL TERRITORIO E IL COSTRUITO – LM 26, DIPARTIMENTO DI INGEGNERIA, Università degli studi di PERUGIA
From 2022	RISCHIO E RESILIENZA TERRITORIALE (cod.: 10596073 SSD: ING-IND/28 – 6 CFU) 30427-INGEGNERIA DELLA SICUREZZA E PROTEZIONE CIVILE [LM - Ordin. 2020] - LM-26 INGEGNERIA CIVILE E INDUSTRIALE
From 2020	PRINCIPI DI PREVENZIONE INCENDI (cod.: 10592456 SSD: ING-IND/28 – 6 CFU) 30386-TECNICHE PER L'EDILIZIA E IL TERRITORIO PER LA PROFESSIONE DEL GEOMETRA [L-270 - Ordin. 2020] - L-23 – interfacoltà
From 2017	RISCHIO E SICUREZZA NEI CANTIERI (cod.: 1047526 SSD: ING-IND/28 – 12 CFU) 25803-INGEGNERIA DELLA SICUREZZA [L (DM 270/04) - ORDIN. 2012 INTERCLASSE CON L-9] - L-7 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
From 2015 To 2017	SICUREZZA (cod.: 1038496 SSD: INGIND/ 28 - 9 CFU) 26015-INGEGNERIA CIVILE E INDUSTRIALE [L (DM 270/04) INTERCLASSE con L-7 ORDIN. 2013] - SEDE DI LATINA - L-9 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
From 2016	SICUREZZA NEI CANTIERI (cod.: 1047989 SSD: ING-IND/28 – 6 CFU) 28227-INGEGNERIA DELLA SICUREZZA E PROTEZIONE CIVILE [LM (DM 270/04) - ORDIN. 2016] - LM-26 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
From 2016 To 2017	SAFETY AND RISK ANALYSIS (cod.: 1044013 SSD: ING-IND/28 - 6 CFU) 27592-INGEGNERIA DEI SISTEMI DI TRASPORTO – TRANSPORT SYSTEMS ENGINEERING [LM (DM 270/04) ORDIN. 2015] - LM- 23 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
From 2012 To 2015	INGEGNERIA DELLA SICUREZZA (cod.: 1003634 SSD: ING-IND/28 - 9 CFU) 00503-INGEGNERIA PER L'AMBIENTE E IL TERRITORIO [L (DM 509/99) - ORDIN. 1999] – SEDE DI LATINA – 8 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
From 2012 To 2015	ANALISI DI RISCHIO NELLE OPERE CIVILI (cod.: 1031862 SSD: ING IND/28 – 6 CFU) 13677-INGEGNERIA DEI SISTEMI DI TRASPORTO [LM (DM 270/04) - ORDIN. 2009] - LM-23 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma

From 2009 To 2017	RISCHIO E SICUREZZA NEI CANTIERI (cod.: 1021997 SSD: ING-IND/28 – 9 CFU) 14481-INGEGNERIA DELLA SICUREZZA [L (DM 270/04) - ORDIN. 2010 INTERCLASSE CON L-7] - L-9 - Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma
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MAIN RESEARCH EXPERIENCE

2023	▪ PE3 Return Spoke TS2 – Multi-Risk Resilience of Critical Infrastructures, WP6 Leader and Co-PI DICMA Sapienza
2022	▪ FIRE - wildFire-related-landslide scenarios for territorial planning and Risk management. RG12218162F0E551, Co-PI DICMA Sapienza
2019	▪ From field studies to an easy-to-use tool for risk assessment of pesticide-exposed agricultural workers: preliminary exposure evaluation and risk profiles for a safe use of pesticides – the PESTIRISK approach, Bric 2019 INAIL. Principal Investigator Operational unit DICMA
2019	▪ Integrazione di metodi affidabilistici e geostatistici per la gestione della risorsa idrica sotterranea al fine di assicurare un carattere di resilienza ai cambiamenti climatici e di sostenibilità allo sfruttamento antropico: il caso-pilota della sorgente di Ninfa, RM11916B845A30EA member research unit DICMA, Sapienza
2018	▪ Analysis and predictive monitoring of groundwater resources: reliable and geostatistical methods for the mitigation of infrastructural vulnerability, RM11816436657E11 Principal Investigator
2017	▪ Reliability and geostatistical methods related to spatiotemporal modeling of the components conditioning the hydrogeological instability. AR11715C58BE546F, Sapienza
2016	▪ REPHASE: REsilience of Performance Human FActor for Safety of work Environment. RP1161550662F778, Sapienza
2015	▪ FRASI: Framwork per il Rating della Sicurezza d'Impresa (ID 13), Bric 2013-2015 INAIL. Principal Investigator Operational unit DICMA
2015	▪ Integrated design for occupational safety: technical, social and criminal responsibility profiles. C26C148Z35, Sapienza
2014	▪ GIS4RISKS. Synergic use of GIS applications for analysing volcanic and seismic risks in the pre and post event C26M14XX7T, Sapienza
2013	▪ Modeling of fire scenarios and performance compliance: the case of railway stations C26A13PBZR, Sapienza Principal Investigator
2007	▪ Insurance models and risk indicators: the use of accidents database and safety technologies B1 N 04 / DTS / 07, ISPESL-INAIL

OTHER RELEVANT EXPERIENCES

From 2019/04/02	▪ President of Startup Sapienza Sicurezza 4.0 (https://sicurezzaquattropuntozero.it/)
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HONOURS, AWARDS, MEMBERSHIPS, OTHER

QUALIFICATIONS

2018	▪ Co-Editor of International Journal of Safety and Security Engineering (WIT Press) Wessex Institute of Technology (WIT)
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ADDITIONAL
INFORMATION

Patent ITALIA - BREV. DI INVENZIONE
Domanda N. 102020000003028 del 14 Febbraio 2020
Registrata con il N. 102020000003028 in data 22 Febbraio 2022
SISTEMA DI SUPPORTO PER UNA EVACUAZIONE DI UN UTENTE DA
UNA GALLERIA

Publications List of the most relevant publications

Pireddu, A., Bedini, A., Lombardi, M., Ciribini, A. L., & Berardi, D. (2024). A Review of Data Mining Strategies by Data Type, with a Focus on Construction Processes and Health and Safety Management. [in press]

Parise, G., Lanciano, M. B., Pagano, E., Caputo, F., & **Lombardi, M.** (2024). Service Continuity and Sustainable Emergency for Fire in Road Tunnels: Measures to Prevent and Mitigate Emergencies in Road Tunnels. *IEEE Industry Applications Magazine*.

Berardi, Davide; Galuppi, Marta; **Lombardi, Mara**;

Experimental Study on the Effectiveness of Water Mist Extinguishing Systems for Protecting Paintings in Art Gallery Museums: Developing an Initial Methodological Model, *Buildings*, 13, 1806, 2023, MDPI

Pireddu, Antonella; **Lombardi, Mara**; Bruzzone, Silvia; Berardi, Davide; Guarascio, Massimo;

Risk Based Tunnel Design by Vehicle Involved in Road Crashes: Models and Tunnel Length, *International Journal of Transport Development and Integration* 7, 2, 95 – 103, 2023

Lombardi, Mara; Mauro, Francesca; Berardi, Davide; Galuppi, Marta; Occupational Road Safety Management: A Preliminary Insight for a Landfill Remediation Site, *Buildings*, 13, 5, 1238, 2023, MDPI

Lombardi, Mara; Berardi, Davide; Galuppi, Marta;

A Critical Review of Fire Tests and Safety Systems in Road Tunnels: Limitations and Open Points, *Fire*, 6, 213, 2023, MDPI

Lombardi, Mara; Mauro, Francesca; Fagnoli, Mario; Napoleoni, Quintilio; Berardi, Davide; Berardi, Simona,

Occupational risk assessment in landfills: research outcomes from Italy, *Safety*, 9, 1, 3, 2023, MDPI

Lombardi, Mara; Libertà, Angelo; Berardi, Davide;

Concepts and operational tools for multihazard risk analysis in road tunnels: The San Benedetto event, Italy, *Safety and Security Engineering IX*, 206, 229, 2022, WIT Press

Baiocchi, V., Vatore, F., **Lombardi, M.**, Monti, F., Onori, R.

The contribution of open-source gis software and open spatial data for the re-evaluation of landslide risk and hazard in view of climate change. *Geographia Technica*, 2021, 16(Special Issue), pp. 153–162

Cardarilli, M., **Lombardi, M.**, Corazza, A.

Landslide risk management through spatial analysis and stochastic prediction for territorial resilience evaluation

(2019) *International Journal of Safety and Security Engineering*, 9(2), pp. 109-120
DOI: 10.2495/SAFE-V9-N2-109-120

Cardarilli, M., **Lombardi, M.**, Guarascio, M.

Preventive planning model for rescue priority management in seismic emergency (2018) *International Journal of Safety and Security Engineering*, 8 (2), pp. 307-319.
DOI: 10.2495/SAFE-V8-N2-307-319

Alimonti, C., **Lombardi, M.**, Cardarilli, M., Soldo, E.

Reliability Analysis Applied on Land Subsidence Effects of Groundwater

Remediation: Probabilistic vs. Deterministic Approach (2017) *Water Resources Management*, 31 (6), pp. 1745–1758. IF: 2,644. DOI: 10.1007/s11269-017-1596-7

Lombardi, M., Cardarilli, M., Raspa, G.

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

Rome, 20 May 2024

Signature