

CURRICULUM VITAE

PERSONAL INFORMATION

Name	ROBERTO PAOLUCCI
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Nationality	ITALY
Date of Birth	13 August 1964
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MAIN WORK EXPERIENCE

Since 2011	Full Professor of Structural Mechanics, chairs of Engineering Seismology and Earthquake Engineering, Politecnico di Milano
From 2018 to 2024	Nominated member of Commissione Grandi Rischi, the scientific consulting committee of the Italian Department of Civil Protection, with the role of Coordinator of the Seismic Risk Sector
From 2016 to 2020	Member of Project Team SC8.T1, for drafting the revision of Part 1 of Eurocode 8 (EN1998-1), being the main author of the section related to site classification and seismic actions for design
From 2011 to 2018	Director of the PhD School in Structural, Seismic and Geotechnical Engineering, at Politecnico di Milano
From 2001 to 2010	Associate Professor in Solid Mechanics, Politecnico di Milano
From 1995 to 2000	Researcher in Solid Mechanics, Politecnico di Milano.

EDUCATION AND TRAINING

Institute of education/training	<i>POLITECNICO DI MILANO, ITALY</i>
1989	<i>Laurea in Civil Engineering</i> with grade 100/100 cum laude
1995	<i>PhD in Earthquake Engineering</i>

COORDINATION OF RESEARCH PROJECTS AND CONTRACTS (selected)

Date	2008-2011
Research Project	<i>Italian Strong-Motion Database</i> (Project S4 DPC-INGV)
Role	National coordinator
Date	2012-2015
Research Project	<i>SIGMA: Reducing uncertainties in the probabilistic seismic hazard analysis for critical facilities</i> (Electricité de France)
Role	Local coordinator
Date	2013-2014
Research Contract	<i>Guidelines for seismic design of a gas pipeline in Central Italy</i> (SNAM)

Role	Coordinator
Date	2012-2016
Research Contract	High-performance computing tools for physics-based earthquake ground shaking scenarios in large urban areas (MunichRe, Germany)
Role	Coordinator
Date	2014-2018
Research Project	Near-source effects on earthquake ground motion (Project RS2 – DPC-RELUIS)
Role	National coordinator
Date	2019-2024
Research Project	Earthquake ground motion modelling from induced seismicity in the Groningen gas field (Dutch Ministry of Economic Affairs and Climate Policy, The Netherlands). KEM04 and KEM36 Projects.
Role	Local Coordinator
Date	2019-to present
Research Project	Research contributions for Seismic actions in the norms (Project RS2 – DPC-RELUIS)
Role	National coordinator
Date	2017-2022
Research Contract	Seismic hazard and risk evaluations for nuclear facilities (Sigma2 Project, Swissnuclear, Switzerland)
Role	Local Coordinator
Date	2019-2023
Research Contract	URBASIS - New challenges for Urban Engineering Seismology (EC Horizon 2020 - Research and Innovation Framework Programme H2020-MSCA-ITN-2018)
Role	Local Coordinator

INTERNATIONAL RESEARCH AWARDS

Date	2000
Award	Shamsher Prakash Award (University of Missouri-Rolla - USA)
Motivation	Distinguished young researcher in Earthquake Geotechnical Engineering
Date	2006
Award	Outstanding Paper Award (Earthquake Engineering Research Institute - USA)
Motivation	“Displacement Spectra for Long Periods”, co-authored by E. Faccioli and J. Rey, published in Earthquake Spectra, 2004.

SELECTED KEYNOTE/INVITED LECTURES

Date	2011
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Title	<i>3D Numerical Simulations of Earthquake Ground Motion in Sedimentary Basins</i>
Conference	Keynote lecture at the 4th International Symposium IASPEI / IAEE on the "Effects of Surface Geology on Seismic Motion", University of California Santa Barbara, USA
Date	2014
Title	<i>Physics-based earthquake ground shaking scenarios in large urban areas</i>
Conference	Invited lecture at the 2nd European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey
Date	2018
Title	<i>3D physics-based numerical simulations: advantages and current limitations of a new frontier to earthquake ground motion prediction.</i>
Conference	Theme lecture at the 16th European Conf. on Earthquake Engineering, Thessaloniki, Greece, 18-21 June 2018
Date	2019
Title	<i>Frequently Asked Questions in Seismic Hazard Assessment.</i>
Conference	ANIDIS 2019 National Conference of Earthquake Engineering, Ascoli Piceno, Italy
Date	2021
Title	<i>Generating broadband ground motions from physics-based numerical simulations using artificial neural networks</i>
Conference	Invited lecture at the 6th International Symposium IASPEI / IAEE on the "Effects of Surface Geology on Seismic Motion", Kyoto, Japan, August 2021.
Date	2026
Title	<i>Towards physics-based ground motion and damage scenarios from volcanic-induced earthquakes in Campi Flegrei, metropolitan area of Napoli, Southern Italy</i>
Conference	Theme lecture at the 18 th European Conference on Earthquake Engineering, Berlin, Germany, September 2026.

PUBLICATIONS

Source	Scopus (consulted April 29 2026)
International journal papers and book chapters	112
number of citations	5168
h-index	39
Textbook	<i>Elementi di Sismologia applicata all'Ingegneria</i>
Authors	Faccioli E., Paolucci R.
Publisher	Pitagora

Year	2005
Selected recent publications	Paolucci R., Gatti F., Infantino M., Smerzini C., Özcebe A.O., Stupazzini M. (2018) Broadband Ground Motions from 3D Physics-Based Numerical Simulations Using Artificial Neural Networks. <i>Bulletin of the Seismological Society of America</i>, 108 (3A): 1272-1286. Paolucci R., Smerzini C., Vanini M. (2021) BB-speedset: A validated dataset of broadband near-source earthquake ground motions from 3d physics-based numerical simulations. <i>Bulletin of the Seismological Society of America</i>, 111(5): 2527 – 2545. Paolucci, R.; Aimar, M.; Ciancimino, A.; Dotti, M.; Foti, S.; Lanzano, G.; Mattevi, P.; Pacor, F.; Vanini, M. Checking the site categorization criteria and amplification factors of the 2021 draft of Eurocode 8 Part 1–1. <i>Bulletin of Earthquake Engineering</i>, 19(11): 4199 – 4234, 2021 Paolucci, R., Chiecchio, A., Vanini, M. (2024). Spectrum compatible best matching scenario earthquakes. <i>Soil Dynamics and Earthquake Engineering</i>. Paolucci R., Smerzini C., Vanini M., Mazzieri I., Hernández-Aguirre V.M., Vadacca L. (2026). Near-source ground motion from normal faults: insights from the physics-based numerical simulations of the 1980 Irpinia earthquake, Southern Italy. <i>Earthquake Spectra</i>.

TECHNICAL AND SCIENTIFIC MEMBERSHIPS

Committee	<i>International Scientific Committee</i>
Institution	Fondazione Eucentre, Pavia, Italy
Committee	<i>Editorial Board – Associate Editor</i>
Journal	<i>Bulletin of Earthquake Engineering</i>

CONSULTING ACTIVITY

Topics	Evaluator Member of the Technical Integration team within the Senior Seismic Hazard Analysis Committee (SSHAC) Level 3 for the Probabilistic Seismic Hazard Assessment for nuclear power plants (Saudi Arabia and Poland) Probabilistic Seismic Hazard Assessment and input seismic motion for industrial facilities in Italy and worldwide Seismic slope stability and liquefaction assessment Seismic actions for design including site amplification effects Dynamic soil-structure interaction Impact of human and ambient induced vibrations on structures Investigation of residential and industrial buildings collapse during the L’Aquila and Po Plain earthquakes, under appointment by the Italian Legal Authority
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