CURRICULUM VITAE di:

Nominativo	Andrea Penna

Posizione accademica

Macrosettore:	08/B - Ingegneria strutturale e geotecnica
Settore Concorsuale:	08/B3 -Tecnica delle costruzioni
Settore Scientifico Disciplinare:	ICAR/09 - Tecnica delle costruzioni
Qualifica:	Professore di I fascia
Anzianità nel ruolo:	2 anni
Sede Universitaria:	Università degli Studi di Pavia
Struttura di afferenza (dipartimento o altro)	Dipartimento di Ingegneria Civile e Architettura

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	**Fascia**	**Ateneo**
2015-2021	Professore di II fascia	Università degli Studi di Pavia
2011-2015	Ricercatore universitario	Università degli Studi di Pavia

Pubblicazioni Scientifiche

1	2023	Articolo in rivista Tomic I, Penna A, DeJong MJ, Butenweg C, Correia AA, Candeias PX, Senaldi I, Guerrini G, Malomo D, Wilding B, Pettinga D, Spanenburg M, Galanakis N, Oliver S, Parisse F, Marques R, Cattari S, Lourenco PB, Galvez F, Dizhur D, Ingham JM, Ramaglia G, Lignola GP, Prota A, AlShawa O, Liberatore D, Sorrentino L, Gagliardo R, Godio M, Portioli F, Landolfo R, Solarino F, Bianchini N, Ciocci MP, Romanazzi A, Asikoglu A, D'Anna J, Ramirez R, Romis F, Marinkovic M, Dordevic F, Beyer K (2023). Shake-table testing of a stone masonry building aggregate: overview of blind prediction study. BULLETIN OF EARTHQUAKE ENGINEERING, ISSN: 1570-761X, doi: 10.1007/s10518-022-01582-x

2	2023	Articolo in rivista Lagomarsino, S, Cattari, S, Angiolilli, M, Bracchi, S, Rota, M, Penna, A (2023). Modelling and Seismic Response Analysis of Existing URM Structures. Part 2: Archetypes of Italian Historical Buildings. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 27, p. 1849-1874, ISSN: 1363-2469, doi:10.1080/13632469.2022.2087800
3	2023	Articolo in rivista Damiani, N, DeJong, MJ, Albanesi, L, Penna, A, Morandi, P (2023). Distinct element modeling of the in-plane response of a steel-framed retrofit solution for URM structures. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 52, p. 3030-3052, ISSN: 0098-8847, doi: 10.1002/eqe.3910
4	2023	Articolo in rivista Ponte, M, Penna, A, Bento, R (2023). In-plane cyclic tests of strengthened rubble stone masonry. MATERIALS AND STRUCTURES, vol. 56, ISSN: 1359-5997, doi: 10.1617/s11527-023-02126-8
5	2023	Articolo in rivista Iervolino, I, Baraschino, R, Belleri, A, Cardone, D, Della Corte, G, Franchin, P, Lagomarsino, S, Magliulo, G, Marchi, A, Penna, A, Viggiani, LRS, Zona A (2023). Seismic Fragility of Italian Code-Conforming Buildings by Multi-Stripe Dynamic Analysis of Three-Dimensional Structural Models. JOURNAL OF EARTHQUAKE ENGINEERING, p. 1-34, ISSN: 1363-2469, doi: 10.1080/13632469.2023.2167889
6	2022	Articolo in rivista Kallioras, S, Graziotti, F, Penna, A, Magenes, G (2022). Effects of vertical ground motions on the dynamic response of URM structures: Comparative shake-table tests. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 51, p. 347-368, ISSN: 0098-8847, doi: 10.1002/eqe.3569
7	2022	Articolo in rivista Rosti, A, Smerzini, C, Paolucci, R, Penna, A, Rota M (2022). Validation of physics based ground shaking scenarios for empirical fragility studies: the case of the 2009 L'Aquila earthquake. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 21, p. 95-123, ISSN: 1570-761X, doi: 10.1007/s10518-022-01554-1
8	2022	Articolo in rivista Rosti, A, Rota, M, Penna, A (2022). An empirical seismic vulnerability model. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 20, p. 4147-4173, ISSN: 1570-761X, doi: 10.1007/s10518-022-01374-3
9	2022	Articolo in rivista Penna A., Rota M., Bracchi S., Angiolilli M., Cattari S., Lagomarsino S. (2022). Modelling and Seismic Response Analysis of Existing URM Structures. Part 1: Archetypes of Italian Modern Buildings. JOURNAL OF EARTHQUAKE ENGINEERING, p. 1-27, ISSN: 1363-2469, doi: 10.1080/13632469.2022.2095060
10	2022	Articolo in rivista Kouris, LAS, Penna, A, Magenes, G (2022). Assessment of a Full-Scale Unreinforced Stone Masonry Building Tested on a Shaking Table by Inverse Engineering. BUILDINGS, vol. 12, ISSN: 2075-5309, doi:10.3390/buildings12081235
11	2022	Articolo in rivista Morandini, C, Malomo, D, Pinho, R, Penna, A (2022). Development and validation of a numerical strategy for the seismic assessment of a timber retrofitting solution for URM cavity-wall buildings. JOURNAL OF EARTHQUAKE ENGINEERING, p. 120, ISSN: 1363-2469, doi: 10.1080/13632469.2022.2104960
12	2022	Articolo in rivista Morandini, C, Malomo, D, Penna, A (2022). Equivalent frame discretisation for URM façades with irregular opening layouts. BULLETIN OF EARTHQUAKE ENGINEERING, ISSN: 1570-761X, doi: 10.1007/s10518-022-01315-0
13	2021	Articolo in rivista Malomo, D, DeJong, MJ, Penna, A (2021). Influence of bond pattern on the in-plane behavior of URM piers. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol. 15, p. 1492-1511, ISSN: 1558-3058, doi:10.1080/15583058.2019.1702738

14	2021	Articolo in rivista Malomo, D, Morandini, C, Crowley, H, Pinho, R, Penna, A (2021). Impact of ground floor openings percentage on the dynamic response of typical Dutch URM cavity wall structures. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 19, p. 403-428, ISSN: 1570-761X, doi: 10.1007/s10518-020-00976-z
15	2021	Articolo in rivista Greco, A, Giacometti, V, Rota, M, Senaldi, IE, Penna, A (2021). Integrated strategies for preserving and enhancing the historical heritage of the University of Pavia. SUSTAINABILITY, vol. 13, p. 1-25, ISSN: 2071-1050, doi: 10.3390/su13020783
16	2021	Articolo in rivista Bracchi, S, Galasco, A, Penna, A (2021). A novel macroelement model for the nonlinear analysis of masonry buildings. Part 1: Axial and flexural behavior. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 50, p. 2233-2252, ISSN: 0098-8847, doi: 10.1002/eqe.3445
17	2021	Articolo in rivista Rota, M, Bracchi, S, Iorio, D, Penna, A (2021). Typological seismic fragility assessment of old railway stations by nonlinear time history analysis. STRUCTURE AND INFRASTRUCTURE ENGINEERING, vol. 17, p. 1667-1683, ISSN: 15732479, doi: 10.1080/15732479.2020.1822884
18	2021	Articolo in rivista Guerrini, G, Kallioras, S, Bracchi, S, Graziotti, F, Penna, A (2021). Displacement demand for nonlinear static analyses of masonry structures: Critical review and improved formulations. BUILDINGS, vol. 11, ISSN: 2075-5309, doi:10.3390/buildings11030118
19	2021	Articolo in rivista Guerrini, G, Salvatori, C, Senaldi, I, Penna, A (2021). Experimental and numerical assessment of seismic retrofit solutions for stone masonry buildings. GEOSCIENCES, vol. 11, ISSN: 2076-3263, doi: 10.3390/geosciences11060230
20	2021	Articolo in rivista Bracchi, S, Penna A (2021). A novel macroelement model for the nonlinear analysis of masonry buildings. Part 2: Shear behavior. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 50, p. 2212-2232, ISSN: 0098-8847, doi: 10.1002/eqe.3444
21	2020	Articolo in rivista Rosti, A, Del Gaudio, C, Rota, M, Ricci, P, Di Ludovico, M, Penna, A, Verderame, GM (2020). Empirical fragility curves for Italian residential RC buildings. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 19, p. 3165-3183, ISSN:1570-761X, doi: 10.1007/s10518-020-00971-4
22	2020	Articolo in rivista Dolce, M, Prota, A, Borzi, B, da Porto, F, Lagomarsino, S, Magenes, G, Moroni, C, Penna, A, Polese, M, Speranza, E, Verderame, GM, Zuccaro G (2020). Seismic risk assessment of residential buildings in Italy. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 19, p. 2999-3032, ISSN: 1570-761X, doi: 10.1007/s10518-020-01009-5
23	2020	Articolo in rivista Vanin, F, Penna, A, Beyer, K (2020). Equivalent-Frame Modeling of Two Shaking Table Tests of Masonry Buildings Accounting for Their Out-Of-Plane Response. FRONTIERS IN BUILT ENVIRONMENT, vol. 6, ISSN: 2297-3362, doi:10.3389/fbuil.2020.00042
24	2020	Articolo in rivista Rosti, A, Rota, M, Penna, A (2020). Influence of seismic input characterisation on empirical damage probability matrices for the 2009 L'Aquila event. SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol. 128, ISSN: 0267-7261, doi: 10.1016/j.soildyn.2019.105870
25	2020	Articolo in rivista Rosti, A, Del Gaudio, C, Di Ludovico, M, Magenes, G, Penna, A, Polese, M, Prota, A, Ricci P, Rota, M, Verderame, GM (2020). Empirical vulnerability curves for italian residential buildings. BOLLETTINO DI GEOFISICA TEORICA E APPLICATA, vol. 61, p. 357-374, ISSN: 0006-6729, doi: 10.4430/bgta0311

26	2020	Articolo in rivista Vanin, F, Penna, A, Beyer, K (2020). A three-dimensional macroelement for modelling the in-plane and out-of-plane response of masonry walls. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 49, p. 1365-1387, ISSN: 0098-8847, doi: 10.1002/eqe.3277
27	2020	Articolo in rivista Malomo, D, Pinho, R, Penna, A(2020). Numerical modelling of the out-of-plane response of full-scale brick masonry prototypes subjected to incremental dynamic shake-table tests. ENGINEERING STRUCTURES, vol. 209, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2020.110298
28	2020	Articolo in rivista Malomo, D, Pinho, R, Penna, A (2020). Simulating the shake table response of unreinforced masonry cavity wall structures tested to collapse or nearcollapse conditions. EARTHQUAKE SPECTRA, ISSN: 8755-2930, doi:10.1177/8755293019891715
29	2020	Articolo in rivista Kallioras, S, Correia, AA, Graziotti, F, Penna, A, Magenes, G (2020). Collapse shaketable testing of a clay-URM building with chimneys. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 18, p. 1009-1048, ISSN: 1570-761X, doi:10.1007/s10518-01900730-0
30	2020	Articolo in rivista Malomo, D, Pinho, R, Penna, A (2020). Applied Element Modelling of the Dynamic Response of a Full-Scale Clay Brick Masonry Building Specimen with Flexible Diaphragms. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, ISSN: 1558-3066, doi: 10.1080/15583058.2019.1616004
31	2020	Articolo in rivista Senaldi, IE, Guerrini, G, Comini, P, Graziotti, F, Penna, A, Beyer, K, Magenes G (2020). Experimental seismic performance of a half-scale stone masonry building aggregate. BULLETIN OF EARTHQUAKE ENGINEERING, ISSN: 1573-1456, doi: 10.1007/s10518-019-00631-2
32	2020	Articolo in rivista Rosti, A, Rota, M, Penna, A (2020). Empirical fragility curves for Italian URM buildings. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 19, p. 3057-3076, ISSN: 1570-761X, doi: 10.1007/s10518-020-00845-9
33	2019	Articolo in rivista Kallioras, S, Graziotti, F, Penna, A (2019). Numerical assessment of the dynamic response of a URM terraced house exposed to induced seismicity. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 17, p. 1521-1552, ISSN: 1570-761X, doi: 10.1007/s10518-018-0495-5
34	2019	Articolo in rivista Graziotti, F, Penna, A, Magenes, G (2019). A comprehensive in situ and laboratory testing programme supporting seismic risk analysis of URM buildings subjected to induced earthquakes. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 17, p. 4575-4599, ISSN: 1570-761X, doi: 10.1007/s10518-018-0478-6
35	2019	Articolo in rivista Malomo, D, DeJong, MJ, Penna, A (2019). Distinct element modelling of the in-plane cyclic response of URM walls subjected to shear-compression. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, ISSN: 0098-8847, doi:10.1002/eqe.3178
36	2019	Articolo in rivista Guerrini, G, Senaldi, I, Graziotti, F, Magenes, G, Beyer, K, Penna, A (2019). Shake-Table Test of a Strengthened Stone Masonry Building Aggregate with Flexible Diaphragms. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, p. 1-20, ISSN: 1558-3066, doi:10.1080/15583058.2019.1635661
37	2019	Articolo in rivista Penna, A, Calderini, C, Sorrentino, L, Carocci, CF, Cescatti, E, Sisti, R, Borri, A, Modena, C, Prota, A (2019). Damage to churches in the 2016 central Italy earthquakes. BULLETIN OF EARTHQUAKE ENGINEERING, ISSN: 1573-1456, doi: 10.1007/s10518-019-00594-4
38	2019	Articolo in rivista

		Tomassetti, U, Correia, AA, Graziotti, F, Penna, A (2019). Seismic vulnerability of roof systems combining URM gable walls and timber diaphragms. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 48, p. 1297-1318, ISSN: 0098-8847, doi: 10.1002/eqe.3187
39	2019	Articolo in rivista Tomassetti, U, Graziotti, F, Sorrentino, L, Penna, A (2019). Modelling rocking response via equivalent viscous damping. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 48, p. 1277-1296, ISSN: 0098-8847, doi:10.1002/eqe.3182
41	2019	Articolo in rivista Masi, A, Penna, A (2019). Guest editorial: the 2016 central Italy earthquakes. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 17, p. 5393-5397, ISSN:1570-761X, doi: 10.1007/s10518-019-00710-4
42	2019	Articolo in rivista Sorrentino, L, Cattari, S, da Porto, F, Magenes, G, Penna, A (2019). Seismic behaviour of ordinary masonry buildings during the 2016 central Italy earthquakes. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 17, p. 5583-5607, ISSN: 1570-761X, doi:10.1007/s10518-018-0370-4
43	2018	Articolo in rivista Kallioras, S, Guerrini, G, Tomassetti, U, Marchesi, B, Penna, A, Graziotti, F, Magenes, G (2018). Experimental seismic performance of a full-scale unreinforced clay-masonry building with flexible timber diaphragms. ENGINEERING STRUCTURES, vol. 161, p. 231249, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2018.02.016
44	2018	Articolo in rivista Tomassetti, U, Graziotti, F, Penna, A, Magenes, G (2018). Modelling one-way out-of-plane response of single-leaf and cavity walls. ENGINEERING STRUCTURES, vol. 167, p. 241-255, ISSN: 0141-0296, doi: 10.1016/j.engstruct.2018.04.007
45	2018	Articolo in rivista Morandi, P, Albanesi, L, Graziotti, F, Li Piani, T, Penna, A, Magenes, G (2018). Development of a dataset on the in-plane experimental response of URM piers with bricks and blocks. CONSTRUCTION AND BUILDING MATERIALS, vol. 190, p. 593-611, ISSN: 0950-0618, doi: 10.1016/j.conbuildmat.2018.09.070
46	2018	Articolo in rivista Malomo, D, Pinho, R, Penna, A (2018). Using the Applied Element Method for modelling calcium silicate brick masonry subjected to in-plane cyclic loading. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 47, p. 1610-1630, ISSN: 0098-8847, doi: 10.1002/eqe.3032
47	2018	Articolo in rivista Cattari, S, Camilletti, D, Lagomarsino, S, Bracchi, S, Rota, M, Penna, A (2018). Masonry Italian Code-Conforming Buildings. Part 2: Nonlinear Modelling and Time-History Analysis. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 22, p. 2010-2040, ISSN: 1363-2469, doi:10.1080/13632469.2018.1541030
48	2018	Articolo in rivista Rosti, A, Rota, M, Penna, A (2018). Damage classification and derivation of damage probability matrices from L'Aquila (2009) post-earthquake survey data. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 16, p. 36873720, ISSN: 1570-761X, doi: 10.1007/s10518-018-0352-6
49	2018	Articolo in rivista Manzini, CF, Magenes, G, Penna, A, da Porto, F, Camilletti, D, Cattari, S, Lagomarsino, S (2018). Masonry Italian Code-Conforming Buildings. Part 1: Case Studies and Design Methods. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 22, p. 54-73, ISSN: 1363-2469, doi:10.1080/13632469.2018.1532358
50	2018	Articolo in rivista Mazzoni, S, Castori, G, Galasso, C, Calvi, P, Dreyer, R, Fischer, E, Fulco, A, Sorrentino, L, Wilson, J, Penna, A, Magenes, Guido (2018). 2016-2017 central Italy earthquake sequence: Seismic retrofit policy and effectiveness. EARTHQUAKE SPECTRA, vol. 34, p. 1671-1691, ISSN:8755-2930, doi: 10.1193/100717EQS197M

51	2017	Articolo in rivista Kouris, LAS, Penna, A, Magenes, G (2017). Seismic damage diagnosis of a masonry building using short-term damping measurements. JOURNAL OF SOUND AND VIBRATION, vol. 394, p. 366-391, ISSN: 0022-460X, doi: 10.1016/j.jsv.2017.02.001
52	2017	Articolo in rivista Mendes, N, Costa, AA, Lourenço, PB, Bento, R, Beyer, K, de Felice, G, Gams, M, Griffith, MC, Ingham, JM, Lagomarsino, S, Lemos, JV, Liberatore, D, Modena, C, Oliveira, DV, Penna, A, Sorrentino, L (2017). Methods and approaches for blind test predictions of out-of-plane behavior of masonry walls: a numerical comparative study. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol. 11, p. 59-71, ISSN: 1558-3066, doi: 10.1080/15583058.2016.1238974
53	2017	Articolo in rivista Guerrini, G, Graziotti, F, Penna, A, Magenes, G (2017). Improved evaluation of inelastic displacement demands for short-period masonry structures. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, ISSN: 0098-8847, doi: 10.1002/eqe.2862
54	2017	Articolo in rivista Graziotti, F, Tomassetti, U, Kallioras, S, Penna, A, Magenes, G (2017). Shaking table test on a full scale URM cavity wall building. BULLETIN OF EARTHQUAKE ENGINEERING, p. 1-36, ISSN: 1570-761X, doi: 10.1007/s10518-017-0185-8
55	2017	Articolo in rivista Vanin, F, Zaganelli, D, Penna, A, Beyer, K (2017). Estimates for the stiffness, strength and drift capacity of stone masonry walls based on 123 quasi-static cyclic tests reported in the literature. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 15, p. 5435-5479, ISSN: 1570-761X, doi: 10.1007/s10518-0170188-5
56	2016	Articolo in rivista Rosti, A, Penna, A, Rota, M, Magenes, G (2016). In-plane cyclic response of low-density AAC URM walls. MATERIALS AND STRUCTURES, vol. 49, p. 4785-4798, ISSN: 1359-5997, doi: 10.1617/s11527-0160825-5
57	2016	Articolo in rivista Penna, A, Senaldi, IE, Galasco, A, Magenes, G (2016). Numerical Simulation of Shaking Table Tests on Full-Scale Stone Masonry Buildings. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol. 10, p. 146-163, ISSN: 1558-3058, doi: 10.1080/15583058.2015.1113338
58	2016	Articolo in rivista Graziotti, F, Penna, A, Magenes, G (2016). A nonlinear SDOF model for the simplified evaluation of the displacement demand of low-rise URM buildings. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 14, p. 1589-1612, ISSN: 1570-761X, doi: 10.1007/s10518-016-9896-5
59	2016	Articolo in rivista Bracchi, S, Rota, M, Magenes, G, Penna, A (2016). Seismic assessment of masonry buildings accounting for limited knowledge on materials by Bayesian updating. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 14, p. 2273-2297, ISSN: 1570-761X, doi: 10.1007/s10518-016-9905-8
60	2016	Articolo in rivista Graziotti, F, Tomassetti, U, Penna, A, Magenes, G (2016). Out-of-plane shaking table tests on URM single leaf and cavity walls. ENGINEERING STRUCTURES, vol. 125, p. 455-470, ISSN: 01410296, doi: 10.1016/j.engstruct.2016.07.011
61	2015	Articolo in rivista Bracchi, S, Rota, M, Penna, A, Magenes, G (2015). Consideration of modelling uncertainties in the seismic assessment of masonry buildings by equivalent-frame approach. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 13, p. 3423-3448, ISSN: 1570-761X, doi: 10.1007/s10518-015-9760-z
62	2015	Articolo in rivista Penna, A, Mandirola, M, Rota, M, Magenes, G (2015). Experimental assessment of the in-plane lateral capacity of autoclaved aerated concrete (AAC) masonry walls with flat-truss bed-joint reinforcement. CONSTRUCTION AND BUILDING MATERIALS, vol. 82, p. 155-166, ISSN: 09500618, doi: 10.1016/j.conbuildmat.2015.02.057

63	2015	Articolo in rivista Penna, A (2015). Seismic assessment of existing and strengthened stonemasonry buildings: critical issues and possible strategies. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 13, p. 1051-1071, ISSN: 1570-761X, doi:10.1007/s10518-014-9659-0
64	2015	Articolo in rivista Costa, AA, Penna, A, Arêde, A, Costa, A (2015). Simulation of masonry out-of-plane failure modes by multi-body dynamics. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 44, p. 2529-2549, ISSN: 0098-8847, doi: 10.1002/eqe.2596
65	2015	Articolo in rivista Penna, A, Magenes, G, Rota, M, Mandirola, M, Rosti A (2015). Experimental-numerical research on the seismic performance of URM buildings made of lightweight AAC blocks. DAS MAUERWERK, vol. 19, p. 130-143, ISSN: 1432-3427, doi:10.1002/dama.201500657
66	2014	Articolo in rivista Mouyiannou, A, Rota, M, Penna, A, Magenes, G (2014). Identification of suitable limit states from nonlinear dynamic analyses of masonry structures. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 18, p. 231-263, ISSN: 1363-2469, doi: 10.1080/13632469.2013.842190
67	2014	Articolo in rivista Magenes, G, Penna, A, Senaldi, IE, Galasco, A, Rota, M (2014). Shaking table test of a strengthened full scale stone masonry building with flexible diaphragms. INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol. 8, p. 349-375, ISSN: 15583058, doi: 10.1080/15583058.2013.826299
68	2014	Articolo in rivista Rota, M, Penna, A, Magenes, G (2014). A framework for the seismic assessment of existing masonry buildings accounting for different sources of uncertainty. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 43, p. 1045-1066, ISSN: 0098-8847, doi: 10.1002/eqe.2386
69	2014	Articolo in rivista Penna, A, Morandi, P, Rota, M, Manzini, CF, da Porto, F, Magenes, G (2014). Performance of masonry buildings during the Emilia 2012 earthquake. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 12, p. 2255-2273, ISSN: 1570-761X, doi: 10.1007/s10518-013-9496-6
70	2014	Articolo in rivista Penna, A, Lagomarsino, S, Galasco, A (2014). A nonlinear macroelement model for the seismic analysis of masonry buildings. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 43, p. 159-179, ISSN: 0098-8847, doi: 10.1002/eqe.2335
71	2014	Articolo in rivista Senaldi, IE, Magenes, G, Penna, A, Galasco, A, Rota, M (2014). The effect of stiffened floor and roof diaphragms on the experimental seismic response of a full-scale unreinforced stone masonry building. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 18, p. 407-443, ISSN: 1363-2469, doi: 10.1080/13632469.2013.876946
72	2014	Articolo in rivista Mouyiannou, A, Penna, A, Rota, M, Graziotti, F, Magenes, G (2014). Implications of cumulated seismic damage on the seismic performance of unreinforced masonry buildings. BULLETIN OF THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING, vol. 47, p. 157-170, ISSN: 1174-9857
73	2013	Articolo in rivista Lagomarsino, S, Penna, A, Galasco, A, Cattari, S (2013). TREMURI Program: An equivalent frame model for the nonlinear seismic analysis of masonry buildings. ENGINEERING STRUCTURES, vol. 56, p. 1787-1799, ISSN:0141-0296, doi: 10.1016/j.engstruct.2013.08.002
74	2013	Articolo in rivista Costa, AA, Arede, A, Campos Costa, A, Penna, A, Costa A (2013). Out-of-plane behaviour of a full scale stone masonry façade. Part 1: specimen and ground motion selection. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 42, p. 2081-2095, ISSN: 0098-8847, doi: 10.1002/eqe.2313

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76	2013	Articolo in rivista Costa, AA, Arede, A, Penna, A, Costa, A (2013). Free rocking response of a regular stone masonry wall with equivalent block approach: Experimental and analytical evaluation. EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol. 42, p. 2297-2319, ISSN: 0098-8847, doi: 10.1002/eqe.2327
77	2012	Articolo in rivista Tondelli, M, Rota, M, Penna, A, Magenes, G (2012). Evaluation of Uncertainties in the Seismic Assesment of Existing Masonry Buildings. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 16, p. 36-64, ISSN: 13632469, doi: 10.1080/13632469.2012.670578
78	2012	Articolo in rivista Rota, M, Zuccolo, E, Taverna, L, Corigliano, M, Lai, CG, Penna, A (2012). Mesozonation of the Italian territory for the definition of real spectrum-compatible accelerograms. BULLETIN OF EARTHQUAKE ENGINEERING, vol. 10, p. 1357-1375, ISSN: 1573-1456, doi: 10.1007/s10518-0129369-4
79	2011	Articolo in rivista Costa, AA, Penna, A, Magenes, G (2011). Seismic performance of Autoclaved Aerated Concrete (AAC) masonry: from experimental testing of the in-plane capacity of walls to building response simulation. JOURNAL OF EARTHQUAKE ENGINEERING, vol. 15, p. 1-31, ISSN: 1363-2469, doi:10.1080/13632461003642413
80	2011	Articolo in rivista Rota, M, Penna, A, Strobbia C, Magenes, G (2011). Typological seismic risk maps for Italy. EARTHQUAKE SPECTRA, vol. 27, p. 907-926, ISSN: 8755-2930, doi: 10.1193/1.3609850
81	2010	Articolo in rivista Rota, M, Penna, A, Magenes, G (2010). A methodology for deriving analytical fragility curves for masonry buildings based on stochastic nonlinear analyses. ENGINEERING STRUCTURES, vol. 32, p. 1312-1323, ISSN:0141-0296, doi: 10.1016/j.engstruct.2010.01.009
82	2008	Articolo in rivista Rota, M, Penna, A, Strobbia, CL (2008). Processing Italian damage data to derive typological fragility curves. SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol. 28, p. 933-947, ISSN: 0267-7261, doi:10.1016/j.soildyn.2007.10.010

Titoli [1]

- Responsabilità scientifica per progetti di ricerca internazionali e nazionali, ammessi al finanziamento sulla base di bandi competitivi che prevedano la revisione tra pari
  - SICURA (Innovative strategies for the safety, use and valorisation of the architectural heritage), funded by the Cariplo Foundation within the call "to promote good rules for the prevention and conservation of the historical and architectonical heritage " – Principal Investigator, 2013-2015 dal 01-01-2013 al 01-01-2015
  - Seismic Testing of Adjacent Interacting Masonry Structures (AIMS) - EC-Project SERA-TA – Hosting institution LNEC Lisbon – co-PI con K. Beyer (leader, EPFL), MJ DeJong (University of Cambridge), Ch.Butenweg (RWTH Aachen) dal 01-01-2019 al 01-01-2021
- Direzione o partecipazione a comitati editoriali di riviste, collane editoriali, enciclopedie e trattati di riconosciuto prestigio
  - Guest Editor (con Angelo Masi) dello Special issue - The 2016 central Italy Earthquakes del Bulletin of Earthquake Engineering vol. 17(10) - Oct. 2019
  - Membro del Comitato dei revisori della rivista Progettazione Sismica dal 01-01-2018 a oggi
  - Membro dell'editorial board di CivilEng (MDPI) dal 26-06-2020 al 26-05-2023
  - Guest Editor (con K. Beyer, M.J. DeJong e C.Butenweg) dello Special issue - Adjacent Interacting Masonry Structures: Shake Table Test, Blind Prediction and Post-Diction Simulations del Bulletin of Earthquake Engineering dal 14-12-2020 a oggi
- Partecipazione al collegio dei docenti nell'ambito di dottorati di ricerca accreditati dal Ministero:
- Ph.D. Programme in Computational mechanics and advanced materials, IUSS Pavia and University of Pavia, since 2011-12.
- Ph.D. Programme in Civil Engineering and Architecture, University of Pavia, since 2014-15.
- Ph.D. Programme in Design, Modelling and Simulation in Engineering, University of Pavia, since 2017-18 - ongoing.
- Member of the International Masonry Society, the Italian Association for Earthquake Engineering and the European Association of Earthquake Engineering. He is also member of the following working groups: TC250/SC8/WG1 Eurocode 8 WG1 "Masonry" (Lead: Sukai Lu, Austria), responsible for the Task Group 1a "Nonlinear analysis," since 2014; European Association for Earthquake Engineering WG10 "Seismic aspects of historical monument preservation" (Lead: Prof. E Vintzileou, National Technical University of Athens, Greece), since 2014; International Federation for Structural Concrete (CEB-fib), Task Group 7.7 "Sustainable Concrete Masonry Components and Structures," (Conv. Dr. F Parisi, University of Naples, Italy), since 2017.
- Membro del Comitato organizzatore del XI Convegno Nazionale ANIDIS (Genova, 2004) e della 18th World Conference on Earthquake Engineering (Milano, 2024)
- partecipazione come relatore a convegni di carattere scientifico nazionali o internazionali:
  Relatore invitato/keynote speaker nei seguenti convegni internazionali:
  - Earthquake Rehabilitation Conference, Islamabad, November 2005
  - Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics (VEESD 2013), Vienna Agosto 2013
  - 14th D-A-CH Tagung, Zurigo, Agosto 2015
  - 21st National Conference on Structural Engineering (Mexican), Campeche, Mexico, Nov. 2018
  - 9th European Workshop on the Seismic Behaviour of Irregular and Complex Structures held (online) in Lisbon in December 2020
  - 3th ECEES, Bucharest, September 2022
- Responsabile scientifico o coordinatore dei seguenti progetti di ricerca con finanziamento pubblico:
  - Seismic Testing of Adjacent Interacting Masonry Structures (AIMS) - EC-Project SERA-TA – Hosting institution LNEC Lisbon – Team: K. Beyer (leader, EPFL), A. Penna (University of Pavia), MJ DeJong (University of Cambridge), Ch.Butenweg (RWTH Aachen)
  - WP4 – Mappe di rischio sismico e scenari (MARS) - Progetto Esecutivo RELUIS finanziato dal Dipartimento della Protezione Civile, co-responsabile della UR, 2019-2024
  - WP5 - Quick-execution, low-impact and integrated interventions – Progetto Esecutivo RELUIS finanziato dal Dipartimento della Protezione Civile, co-responsabile della UR, 2019-2024
  - WP10 - Code contributions for existing masonry constructions - Progetto Esecutivo RELUIS finanziato dal Dipartimento della Protezione Civile, co-responsabile della UR, 2019-2024
  - Accordo tra EUCENTRE e RELUIS per le attività di supporto tecnico e scientifico in relazione agli eventi sismici nel territorio delle regioni Lazio, Marche, Umbria e Abruzzo a partire dal 24 agosto 2016, finanziato dal Ministero dei Beni Culturali, 2017

[1] In via esemplificativa sono indicate alcune voci

- Seismic assessment of stone masonry buildings in Basel, Canton Basel-Stadt and Federal Office for the Environment (OFEV), Co-PIs: Prof. Katrin Beyer (EPFL), Prof. Guido Magenes (Università di Pavia), Dr. Thomas Wenk (Consulting, Switzerland), 2015-2018
- Topic 15 – Analysis of new and existing masonry buildings designed/assessed according to the Italian building code, Progetto Esecutivo EUCENTRE 2017 finanziato dal Dipartimento della Protezione Civile, co-PI: Dr. Maria Rota, 2017-ongoing
- Topic C.1.1 – Analysis of masonry buildings designed/strengthened according to the Italian building code, Progetto Esecutivo EUCENTRE 2016 finanziato dal Dipartimento della Protezione Civile, co-PI: Prof. Guido Magenes, 2016
- Topic C.2.1.2 - Improvement of the seismic assessment of existing masonry buildings by improving structural analysis and assessment procedures, Progetto Esecutivo EUCENTRE 2014-16 finanziato dal Dipartimento della Protezione Civile, co-PI: Prof. Guido Magenes, 2014-2016
- Linea RS 11 del Progetto Esecutivo RELUIS finanziato dal Dipartimento della Protezione Civile, co-responsabile della UR, 2014-2018
- Linea strutture in muratura del Progetto Esecutivo RELUIS finanziato dal Dipartimento della Protezione Civile, co-responsabile della UR, 2014-2018
- Progetto e3, "Vulnerabilità sismica di edifici in muratura", Progetto Esecutivo EUCENTRE, 2012-2014
- Programma di ricerca No. 9 “Innovative tools for the experimental evaluation of seismic damage and vulnerability of structures” del Progetto Esecutivo EUCENTRE 2005-2008 (finanziato dal Dipartimento della Protezione Civile), Co-PIs: Prof. Alberto Pavese, Dr. Claudio Strobbia, 2005-2008
- Programma di ricerca No. 2 “Numerical-experimental check of the indications concerning existing masonry buildings” del Progetto Esecutivo EUCENTRE 2005-2008 (finanziato dal Dipartimento della Protezione Civile), Co-PI: Prof. Guido Magenes, 2005-2010

• Responsabile scientifico o coordinatore dei seguenti progetti di ricerca con finanziamento privato:
- Experimental study for the qualification (“Certificato di Valutazione Tecnica” – national guidelines) of kits made of fiber reinforced cementitious matrix (FRCM) for strengthening interventions on masonry structures, Ruregold Srl – Principal Investigator, 2019-20
- Numerical simulation of the seismic behaviour of masonry infilled frames with bedjoints reinforced using the new Murfor Compact, NV Bekaert SA (Belgium) – Principal Investigator 2018-19
- Analytical and experimental study of potential structural and non-structural applications of a base isolation system based on an innovative kinematic steel joint, Kyneprox Srl – Principal Investigator 2018-19
- Study the vulnerability of masonry buildings in Groningen,” EUCENTRE research project funded by Nederlandse Aardolie Maatschappij B.V. – Co-Investigator, 2014-2019
- SICURA (Innovative strategies for the safety, use and valorisation of the architectural heritage), funded by the Cariplo Foundation within the call "to promote good rules for the prevention and conservation of the historical and architectonical heritage " – Principal Investigator, 2013-2015
- Calibration of numerical models for masonry spandrels based on large-scale tests, funded by KGV Praventionsstiftung (CH), Switzerland – Principal Investigator, co-PI: Prof. Guido Magenes, 2011-2012
- Seismic performance of masonry buildings with load bearing masonry elements with horizontal bed-joint truss reinforcement, Progetto di ricerca tra EUCENTRE e Bekaert NV – Principal Investigator, 2009-2010
- Seismic response of AAC URM structures, Progetto di ricerca tra EUCENTRE e RDB Hebel S.p.A. – Principal Investigator, co-PI: Prof. Guido Magenes, 2009-2012
- Seismic behaviour of AAC masonry, Progetto di ricerca tra EUCENTRE e Xella R&D – Principal Investigator, co-PI: Prof. Guido Magenes, 2008-2015
- Development of innovative tools for the seismic design of reinforced masonry elements Progetto di ricerca tra EUCENTRE e Bekaert NV – Principal Investigator, co-PI: Prof. Gian Michele Calvi, 2005-2008
- Aerated autoclaved concrete in seismic areas, Progetto di ricerca tra EUCENTRE e RDB Hebel S.p.A. – Principal Investigator, co-PI: Prof. Gian Michele Calvi, 2004-2007

Data

Pavia, 29/09/2023

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