Giammaria Gabbianelli

Curriculum Vitae

PERSONAL INFORMATION

Name	Giammaria Gabbianelli
E-mail	giammaria.gabbianelli@unipv.it

EDUCATION

November 2013 – December 2016

Doctor of Philosophy in Civil Engineering and Architecture (XXIX cycle)

Institution	University of Pavia, Italy
Thesis title	Numerical model for framed structures with thin-walled cross-section members
Supervisor	Prof. Armando Gobetti

October 2011 – July 2013

Master's degree (Laurea Magistrale) in Civil Engineering

Institution	University of Pavia, Italy
Thesis title	Comportamento sismico di sistemi intelaiati in acciaio per lo stoccaggio delle merci – Seismic behaviour of steel framed storage systems
Supervisors	Prof. Armando Gobetti Prof. Claudio Bernuzzi
Grade	110/110 cum laude

October 2007 – July 2011

Bachelor's degree (Laurea Triennale) in Civil Engineering

Institution	Marche Polytechnic University, Italy
Thesis title	Analisi del comportamento statico e sismico di edifici in muratura – Analysis of static and seismic behaviour of masonry buildings
Supervisor	Prof. Fabrizio Davì
Grade	100/110

TEACHING EXPERIENCE

a.y. 2025 – 2026	"**Theory and design of steel structures**" M.Eng. course at University of Pavia.
a.y. 2025 – 2026	"**Structural Engineering**" B.Eng. course at University of Pavia, co-held with Prof. G. Magenes, Prof. A. Pennam, Dr. G. Guerrini.
a.y. 2024 – 2025	"**Introduction to Discrete Element Approaches for Structural Analysis**" Ph.D. course at University School for Advanced Studies IUSS Pavia, co-held with Dr. M. Calò, Dr. N. Scattarreggia.
a.y. 2024 – 2025	"**Theory and design of steel structures**" M.Eng. course at University of Pavia, co-held with Dr. F. Graziotti
a.y. 2023 – 2024	"**Integrated assessment and retrofitting of existing buildings** " Ph.D. course at University School for Advanced Studies IUSS Pavia, co-held with Dr. M. Caruso, Dr. G. Mucedero, Dr. F. Cavalieri.
a.y. 2023 – 2024	"**Theory and design of steel structures**" M.Eng. course at University of Pavia.
a.y. 2022 – 2023	"**Integrated assessment and retrofitting of existing buildings** " Ph.D. course at University School for Advanced Studies IUSS Pavia, co-held with Prof. R. Pinho, Prof. R. Monteiro, Dr. M. Caruso, Dr. G. Mucedero, Dr. F. Cavalieri.
a.y. 2022 – 2023	"**Seismic analysis and design of non-structural components**" Ph.D. course "Material and Structural Engineering" at University of Salento, co-held with Dr. Gianni Blasi
a.y. 2021 – 2022 a.y. 2022 – 2023	"**Fundamentals of Seismic Design**" Ph.D. and M.Eng. (Civil Engineering for Mitigation of Risk from Natural Hazards) course at University of Pavia and University School for Advanced Studies IUSS Pavia, co-held with Prof. R. Monteiro
a.y. 2021 – 2022 a.y. 2022 – 2023	"**Theory and design of steel structures**" M.Eng. course at University of Pavia, co-held with Dr. F. Graziotti
8 November – 12 November 2021	Co-Lecturer, with Prof. Monteiro, for the course (15 hour) "**Seismic design of building structures**", at Stellenbosch University, South Africa.
a.y. 2018 – 2019 a.y. 2017 – 2018	Teaching assistant of "**Shells and tanks**" M.Eng. course at University of Pavia, held by Dr. R. Nascimbene
a.y. 2018 – 2019 a.y. 2017 – 2018 a.y. 2016 – 2017	Teaching assistant of "**Theory and design of steel structures**" M.Eng. course at University of Pavia, held by Dr. R. Nascimbene
a.y. 2017 – 2018 a.y. 2016 – 2017	Lecturer at Fondazione Pavia Città della Formazione, Istituto Tecnico Superiore (ITS) – Area CSR: Costruzioni, Strutture e Risanamento.
a.y. 2015 – 2016 a.y. 2014 – 2015 a.y. 2013 – 2014	Teaching assistant of "**Dynamic of structures and computational mechanics**" M.Eng. course at University of Pavia, held by Prof. A. Gobetti

RESEARCH APPOINTMENTS AND STAYS

July 2025 – Current	**Research associate (rtd-b)** at University of Pavia, Italy
January 2022 – June 2025	**Research associate (rtd-a)** at University of Pavia, Italy Advanced structural modelling and implementation using finite and discrete element approaches; seismic vulnerability assessment of structures and non-structural components; mitigation of seismic risk through structural intervention; design of steel structures and assessment of structures subjected to seismic action.
April 2019 – December 2021	**Post-doctoral researcher** at University School for Advanced Studies IUSS Pavia, Italy Evaluation of seismic demand on non-structural elements. Seismic vulnerability assessment of existing reinforced concrete structures and evaluation of optimum retrofitting interventions.
June 2018 – March 2019	**Post-doctoral researcher** at University of Pavia, Italy Seismic vulnerability of industrial precast structures, airport infrastructures and steel storage tanks. Evaluation of fragility curves by means of nonlinear time history analyses.
January 2017 – May 2018	**Researcher** at EUCENTRE, Pavia, Italy Seismic vulnerability assessment of precast structures: engineering methods for fragility evaluation of complex structures. Nonlinear analyses and advanced modelling of 3D structures aiming at obtaining the seismic demand.
June 2016 – October 2016	**Visiting PhD student** at Faculty John A. Paulson School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, United States Numerical analyses aimed at assessing the nonlinear response of materials and structures. Development and implementation of numerical Python algorithms to randomly apply defects and geometrical imperfections to truss-lattice materials. Supervisor: Prof. Katia Bertoldi

RESEARCH ACTIVITY

Development of Finite Element software with warping effects

Development of a finite element program, capable of considering warping torsion, flexural-torsional buckling and lateral-torsional buckling in beam elements with general cross-sections. The program has been developed in a Visual Studio environment with a graphic interface, adopting C# language program. The software has been completed, and it performs static, modal, buckling, pushover and nonlinear dynamic analyses. Different scientific articles have been produced adopting this software.

Study of steel storage racks

Evaluation of the load capacity of steel storage racks in both static and dynamic fields. Assessment of the warping torsion influence in static, dynamic and buckling analysis. Studies and improvement of the design method. Pushover and time-history analyses via experimental and numerical studies. Derivation of floor acceleration spectra on pallets stored in racks. Development of loss estimation methodologies. Studies on cold-formed thin-walled open cross-sections. Development of anti-seismic devices for reducing seismic vulnerability.

Study of industrial structures

Assessment of seismic behaviour and evaluation of seismic vulnerability by means of fragility curves for steel storage tanks, precast structures, steel braced frames and moment-resisting frames.

Development of AEM software

Study of the Applied Element Method (AEM) formulation in order to simulate the progressive collapse of buildings and to assess the risk of failure. Development of software, in C# language program, that adopts the AEM formulation and comparison the results with examples available in the literature and in other commercial software.

Seismic demand on non-structural elements

Investigation of the assessment and approaches for deriving the seismic demand on non-structural elements, mainly through floor acceleration and displacement spectra.

Evaluation of optimum retrofit intervention

Implementation of various methodologies, such as the multi-criteria evaluation method, to comparatively assess retrofitting options for existing reinforced concrete (RC) buildings, considering different aspects, such as environmental impacts, seismic and energetic performance, weighted according to their deemed importance.

CONSULTANCY ACTIVITIES AND TRAINING COURSES FOR PRACTITIONERS

2024 - 2025	Consultancy for "Federazione Nazionale Imprese Elettrotecniche ed Elettroniche ANIE" focused on the study of external elevators and residential building interaction during seismic events. The contract was stipulated with the *Department of Civil Engineering and Architecture, University of Pavia*. Budget: €14.000,00. P.I.: Prof. Alessandro Greco ***Role: research collaborator and vice P.I.***
November 2024	Lecturer for the professional course "Valutazione della sicurezza sismica di edifici esistenti in C.A. e Acciaio", 27th November, 2nd and 5th December 2024, Mosayk s.r.l, Pavia, Italy.
October 2024	Lecturer for the professional course "L'utilizzo dell'Applied Element Method nella modellazione strutturale e nelle analisi nonlineari", 24th and 29th October 2024, Mosayk s.r.l, Pavia, Italy.
July 2024	Lecturer for the professional course "Progetto di strutture in acciaio secondo le Norme Tecniche per le costruzioni 2018", 16th, 18th, 23rd July 2024, Fondazione EUCENTRE, Pavia, Italy.
2024 – Current	Development of the software Omnia "Omni Modelling for Nonlinear Inelastic Analysis", for structural analyses based on the Applied Element Method (AEM). In collaboration with Mosayk s.r.l.
September 2021	Lecturer for the professional course "SeismoTANK – Tool for the seismic evaluation of tanks", 21st September 2021, Mosayk s.r.l, Pavia, Italy.
September 2021	Lecturer for the professional course "Industrial steel storage racks: standard; structural analysis and design", 17th September 2021, Ordine degli Ingegneri della Provincia di Pavia, Italy.
2021 – Current	Development of the software MEFGen for the numerical modelling of masonry buildings. In collaboration with Mosayk s.r.l.
2019 – Current	Development of the software SeismoTank for the seismic analysis of tanks. In collaboration with Mosayk s.r.l.
2019 – Current	Implementation and development of new features in the Finite Element software SeismoStruct. In collaboration with SeismoSoft.
2019 – Current	Development of the software SeismoRack, for the analysis of steel storage pallet racks considering the warping effects. In collaboration with SeismoSoft.
2017 – Current	Seismic vulnerability assessment of existing steel storage tanks (more than 100); the tanks are placed in industrial facilities in different locations in Italy.
2018 – 2021	Verification of top beam systems for lifting and handling of different rack compositions for E.T.A. S.p.A.
2018	Seismic vulnerability evaluation of two docks (one of them 208 meters long) for oil tanker ships. The docks owner is ENI S.p.A. Modelling of the structures with prestressed beams, foundation piles and soils with three-

	dimensional solid elements. The docks' performance was studied with nonlinear static analyses, considering the soil interaction. Compilation of reports containing performed analyses, adopted models, and detected vulnerabilities.
December 2018	Lecturer for the professional course "Static and seismic analysis and design of industrial storage racks", 14th December 2018, Ordine degli Ingegneri della Provincia di Brescia, Italy.
June 2018	Lecturer for the professional course "Industrial steel storage racks: static and seismic standard, analysis and design", 8th June 2018, Ordine degli Ingegneri della Provincia di Pavia, Italy.
March 2017	Detection of damages and compilation of surveys forms of buildings and churches in the post-seismic emergency in central Italy after the earthquake of August 2016 and January 2017.
December 2016	Registration at the “Ordine degli Ingegneri della Provincia di Ancona”, n°4040, Civil and Ambiental sector.
October 2015	Lecturer for the professional course "Analysis and design of steel members with non bi-symmetric cross-sections", 20th October 2015, Ordine degli Ingegneri della Provincia di Milano, Italy.
June - July 2015	Lecturer for the professional course "Design methods of steel frame systems", 22nd June, 29th June, 6th July 2015, Ordine degli Ingegneri della Provincia di Milano, Italy.
February - March 2015	Lecturer for the professional course "Design methods of steel frame systems", 25th February, 4th March, 11th March 2015, Ordine degli Ingegneri della Provincia di Milano, Italy.

COORDINATION AND PARTICIPATION IN RESEARCH PROJECTS/GROUPS

September 2025 - February 2029	**SAVERACK** "Sustainable, advanced and economical retrofitting strategies for reducing the seismic vulnerability and risk of steel storage pallet racks" – Research Fund for Coal and Steel, RFCS; funded by European Commission, project budget: €2.547.678,07. Duration 42 months. ***Role: Principal Investigator (total UniPv budget: €388.575,00; total Eucentre budget: €533.375,00)***
January 2024 – Present	ERIES-COLCAP "Experimental assessment of the collapse capacity of code-compliant RC frames" – HORIZON-INFRA-2021-SEV-01-07; funded under the Horizon Europe Framework Programme. *Role: Research collaborator*
January 2024 – Present	ERIES-PASFIT "Long-Term Performance Assessment of Base Isolated Buildings through Field Testing" – HORIZON-INFRA-2021-SEV-01-07; funded under the Horizon Europe Framework Programme. *Role: Research collaborator*
July 2024 – Present	ERIES-RACKSLIDE "Content sliding investigations for pallet racking systems" – HORIZON-INFRA-2021-SEV-01-07; funded under the Horizon Europe Framework Programme. *Role: Research collaborator*
May 2023 – October 2025	**MITPLANT** "MItigazione della vulnerabiliTà sIsmica Per impianti industriaLi A rischio rilevaNTe"; funded by INAIL, project budget: €215.650,00. ***Role: Research unit leader (total unit budget: €99.750,00)***
September 2023 – August 2025	**DESRACK** "Development and validation of Economic and Sustainable Retrofitting techniques for seismic risk mitigAtion of steel storage pallet raCKs" – PRIN 2022; funded by MUR, project budget: €236.984,00. ***Role: Research unit leader and vice P.I. (total unit budget: €87.746,00)***
January 2018 – Present	Italian Department of Civil Protection (DPC) Project 15 "Web-GIS platform for seismic hazard and damage risk scenarios in industrial chemical plants" *Role: Research collaborator*
January 2022 – Present	Geo-INQUIRE "Geosphere Infrastructures for questions into integrated research"– Horizon-infra-2021-serv-01 *Role: Research collaborator*
April 2019 – December 2021	ReLUIS WP5 Project "Rapid and integrated retrofit interventions with a low impact" *Role: Research collaborator*
April 2019 – December 2021	ReLUIS WP17 Project "Contributions to standard for non-structural elements" *Role: Research collaborator*
April 2019 – December 2021	Dipartimenti di Eccellenza (Departments of Excellence) Project "Revision of Seismic Action and Design" – IUSS Pavia *Role: Research collaborator*

January 2018 – December 2018	Italian Department of Civil Protection (DPC) Project 17 "Activities for assessment and classification of non-structural elements in airport infrastructures" *Role: Research collaborator*
January 2017 – May 2018	NAM project "Study of the vulnerability of masonry and precast buildings in Groningen" *Role: Research collaborator*
January 2017 – May 2018	Hilti project "Study of the vulnerability of non-structural elements through experimental and numerical analyses" *Role: Research collaborator*
January 2017 – December 2017	Italian Department of Civil Protection (DPC) Project 13 "Development of a post-seismic survey form and local vulnerability of airport structures" *Role: Research collaborator*
January 2017 – December 2017	Italian Department of Civil Protection (DPC) Project 5 "Web-GIS platform for seismic hazard and damage scenarios in infrastructure system (traffic, port, airport)" *Role: Research collaborator*

PUBLICATIONS

Publication resume – Scopus

- Search criterion: "Gabbianelli, Giammaria" (Author ID: 56226687700)
- From 2014 to 30th October 2025
- Documents: 36
- Citations: 451
- H-index: 14

International peer-reviewed papers

26 Calvi P.M., Rapone A., Becker T.C., Sucuoglu H., **Gabbianelli G.**, Chalarca B., Lanese I., O'Reilly G.J., Rizzo-Parisi E., Dacarro F., (2026) Dynamic field testing of a 15-year-old friction pendulum base-isolated residential building, *Soil Dynamics and Earthquake Engineering* 200, Part A, https://doi.org/10.1016/j.soildyn.2025.109802

25 **Gabbianelli G.**, Rapone A., Milanesi R.R., Nascimbene R., (2025) Impact of Far- and Near-Field Records on the Seismic Fragility of Steel Storage Tanks, *Applied Mechanics*, 6(2), 24, https://doi.org/10.3390/applmech6020024

24 Mucedero G., **Gabbianelli G.**, Rapone A., Monteiro R., (2025) Development of a practice-oriented methodology for seismic loss assessment of steel storage racks, *Engineering Structures*, 333, 120187, https://doi.org/10.1016/j.engstruct.2025.120187

23 Chalarca B., **Gabbianelli G.**, Bedoya-Ruiz D., Nascimbene R. (2024) Experimental and numerical simulation dataset of a ferrocement wall subjected to fully-reversed cyclic load test, *Data in Brief*, 53, 110095, https://doi.org/10.1016/j.dib.2024.110095.

22 **Gabbianelli G.**, Milanesi R., Gandelli E., Dubini P., Nascimbene R. (2023) Seismic vulnerability assessment of steel storage tanks protected through sliding isolators, *Earthquake Engineering and Structural Dynamics,* https://doi.org/10.1002/eqe.3885

21 Clemett N., Carofilis W., **Gabbianelli G.**, O'Reilly G., Monteiro R. (2023) Optimal combined seismic and energy efficiency retrofitting for existing buildings, *Journal of Structural Engineering*, 149(1), https://doi.org/10.1061/(ASCE)ST.1943-541X.0003500.

20 Carofilis W., Clemett N., **Gabbianelli G.**, O'Reilly G., Monteiro R., (2022) Seismic resilience assessment for optimal integrated retrofitting of existing school buildings in Italy, *Buildings,* 12(6), 845, https://doi.org/10.3390/buildings12060845.

19 Carofilis W., Clemett N., **Gabbianelli G.**, O'Reilly G., Monteiro R., (2022) Influence of parameter uncertainty in multi-criteria decision-making when identifying optimal retrofitting strategies for RC buildings, *Journal of Earthquake Engineering*. https://doi.org/10.1080/13632469.2022.2087794

18 Merino R., **Gabbianelli G.**, Perrone D., Filiatrault A. (2022) Calibrated Equivalent Viscous Damping for Direct Displacement Based Seismic Design of Pallet-Type Steel Storage Racks, *Journal of Earthquake Engineering*. https://doi.org/10.1080/13632469.2022.2033362.

17 Clemett N., Carofilis W., O'Reilly G., **Gabbianelli G.**, Monteiro R., (2022) Optimal seismic retrofitting of existing buildings considering environmental impact, *Engineering Structures* 250, 113391. https://doi.org/10.1016/j.engstruct.2021.113391

16 **Gabbianelli G.**, Perrone D., Brunesi E., Monteiro R. (2022) Seismic acceleration demand and fragility assessment of storage tanks installed in industrial steel moment-resisting frame structures, *Soil Dynamics and Earthquake Engineering* 152, 107016. https://doi.org/10.1016/j.soildyn.2021.107016

15 Calò M., Malomo D., **Gabbianelli G.**, Pinho R. (2021) Shake-table response simulation of a URM building specimen using discrete micro-models with varying degrees of detail, *Bulletin of Earthquake Engineering*. https://doi.org/10.1007/s10518-021-01202-0

14 **Gabbianelli G.** (2021) Applied element modelling of warping effects in thin-walled C-shaped steel sections, *Buildings*, 11(8), 328. https://doi.org/10.3390/buildings11080328

13 Carofilis W., **Gabbianelli G.**, Monteiro R. (2021) Assessment of multi-criteria evaluation procedures for identification of optimal seismic retrofitting strategies for existing RC buildings, *Journal of Earthquake Engineering*. https://doi.org/10.1080/13632469.2021.1878074

12 **Gabbianelli G.**, Perrone D., Brunesi E., Monteiro R. (2020) Seismic acceleration and displacement demand profiles of non-structural elements in hospital buildings, *Buildings*, 10(12), 243. https://doi.org/10.3390/buildings10120243

11 **Gabbianelli G.**, Cavalieri F., Nascimbene R., (2020) Seismic vulnerability assessment of steel storage pallet racks, *Ingegneria Sismica - International Journal of Earthquake Engineering*, 37(2), 18-40.

10 Bozzoni F., Ozcebe A.G., Balia A., Lai C.G., Borzi B. Nascimbene R., Khairy D., **Gabbianelli G.**, Ippoliti L., Berardi S., Trombetti M., Moroni C. (2020) Seismic ground response analyses at an international airport in northern Italy by using a stochastic-based approach, *Journal of Theoretical and Applied Mechanics*, 58(2), 499-511. https://doi.org/10.15632/jtam-pl/119017

9 Montuori R., **Gabbianelli G.**, Nastri E., Simoncelli M. (2019) Rigid plastic analysis for the seismic performance evaluation of steel storage racks, *Steel and Composite Structures*, 32(1), 1-19. https://doi.org/10.12989/scs.2019.32.1.001

8 **Gabbianelli G.**, Kanyilmaz A., Bernuzzi C., Castiglioni C. A. (2017) A combined experimental-numerical study on unbraced pallet rack under

pushover loads, *Ingegneria Sismica - International Journal of Earthquake Engineering*, 34, January-March 2017, 18-38.

7 Bernuzzi C., Di Gioia A., **Gabbianelli G.**, Simoncelli M. (2017) Pushover analyses of hand-loaded steel storage shelving racks, *Journal of Earthquake Engineering*, 21(8), 1256-1282. https://doi.org/10.1080/13632469.2016.1210063

6 Bernuzzi C., **Gabbianelli G.**, Gobetti A., Rosti A. (2016) Beam design for steel storage racks, *Journal of Constructional Steel Research*, 116, Article number 4345, 156-172. https://doi.org/10.1016/j.jcsr.2015.09.007

5 Bernuzzi C., Gobetti A., **Gabbianelli G.**, Simoncelli M. (2015) Simplified approaches to design medium-rise unbraced steel storage pallet racks. II: Fundamental period estimates, *Journal of Structural Engineering (United States)*, 141, 11, Article number 04015037. https://doi.org/10.1061/(ASCE)ST.1943-541X.0001278

4 Bernuzzi C., Gobetti A., **Gabbianelli G.**, Simoncelli M. (2015) Simplified approaches to design medium-rise unbraced steel storage pallet racks. I: Elastic buckling analysis, *Journal of Structural Engineering (United States)*, 141, 11, Article number 04015036. https://doi.org/10.1061/(ASCE)ST.1943-541X.0001271

3 Bernuzzi C., Gobetti A., **Gabbianelli G.**, Simoncelli M., (2015) Unbraced pallet rack design in accordance with European practice. Part 2: essential verification checks, *Thin-walled Structures*, 86, 208-229. https://doi.org/10.1016/j.tws.2014.06.014

2 Bernuzzi C., Gobetti A., **Gabbianelli G.**, Simoncelli M. (2015) Unbraced pallet rack design in accordance with European practice. Part 1: selection of the method of analysis, *Thin-walled Structures*, 86, 185-207. https://doi.org/10.1016/j.tws.2014.06.015

1 Bernuzzi C., Gobetti A., **Gabbianelli G.**, Simoncelli M. (2014) Warping influence on the resistance of uprights in steel storage pallet racks, *Journal of Constructional Steel Research*, 101, 234-241. https://doi.org/10.1016/j.jcsr.2014.05.014

National peer-reviewed papers

3 **Gabbianelli G.**, Simoncelli M. Perrone D., Brunesi E., Monteiro R. (2022) Innovative dissipative devices for increasing the seismic performance of steel storage pallet racks – Dispositivi dissipative innovative per migliorare le prestazioni sismiche di scaffalature metalliche portapallet, Costruzioni Metalliche, Sett-Ott 2022, 93-100.

2 **Gabbianelli G.**, Perrone D., Brunesi E. (2021) Valutazione della domanda sismica per elementi non-strutturali in edifici ospedalieri, Structural 234, marzo/aprile 2021. https://doi.org/10.12917/stru234.11.

1 **Gabbianelli G.**, Simoncelli M. (2016) Analisi statiche e di buckling con profili non bisimmetrici - Static and buckling analysis for non-symmetric members, Costruzioni Metalliche, 3, 63-72.

Conference Papers (* presenter – 10 papers as presenter)

39 Chalarca B., Rapone A., **Gabbianelli G.** (2025) Rotary friction damper for steel storage pallet racks, 19th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, 15th-19th September 2025, Berkeley, California, US

38 Calvi P.M., Rapone A., **Gabbianelli G.**, Becker T.C., Sucuoglu H., Chalarca B., Lanese I., Rizzo Parisi E., Dacarro F. (2025) Characterizing System-Level Performance of a Base Isolated Building via Dynamic Field Testing, 19th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, 15th-19th September 2025, Berkeley, California, US.

37 Rapone A., Calvi P.M., **Gabbianelli G.**, Becker T.C., Sucuoglu H., Chalarca B., Lanese I., Rizzo Parisi E., Dacarro F., O'Reilly G. (2025) Dynamic in-situ testing of a 15-year-old friction-pendulum base isolation system, International Workshop in Engineering Research Infrastructures for European Synergies (ERIES-IW), Proceedings of ERIES-IW2025, Lisbon, Portugal, 7th-9th May 2025. http://dx.doi.org/10.XX

36 Chalarca B., **Gabbianelli G.**, Rapone A. (2025) Parametric study on the modelling assumptions of wood pallet sliding, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

35 Chalarca B., **Gabbianelli G.**, Brunesi E., Micelli F., Ciucci M. (2025) Piping systems of industrial plants subjected to axial and seismic inputs, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

34 **Gabbianelli G.**, Tonello A., Rapone A., Chalarca B. (2025) Seismic assessment of an innovative energy dissipation device for steel storage pallet racks, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

33 Miglietta C., Perrone D., **Gabbianelli G.**, Blasi G., Micelli F., Ciucci M. (2025) Preliminary numerical modelling of a pipe-to-tank connections experimental campaign, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

32 Mucedero G., **Gabbianelli G.**, Monteiro R. (2025) Seismic loss estimation of steel pallet racks, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

31 Rapone A., Chalarca B., **Gabbianelli G.**, (2025) Performance assessment of steel storage pallet racks using different seismic analysis approaches, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

30 Rapone A., Calvi P.M., **Gabbianelli G.**, Becker T.C., Sucuoglu H., Chalarca B., Lanese I., Rizzo Parisi E., Dacarro F., O'Reilly G. (2025) Dynamic field testing a 15-year-old base isolated residential building, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

29 Rodas S., Herrera J.P., Chalarca B., **Gabbianelli G.**, Bedoys-Ruiz D. (2025) Seismic demand on steel storage racks located on upper floors, 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, Rhodes Island, Greece, 15th-18th June 2025. http://dx.doi.org/10.7712XX

28 Chalarca B., Rapone A., **Gabbianelli G.**, Greco A. (2025) Assessment of the dynamic interaction between the elevator hoistway steel frame and building under seismic loads, 2nd Congresso Internazionale di Patrimonio Industriale "Ascensori e Funicolari nel Mondo", 11th-13th July 2025, Providencia, Santiago, Chile.

27 Chalarca B., **Gabbianelli G.**, Perrone D., Ciucci M. (2024) Seismic assessment of different pressurized tank-pipeline configurations on industrial plants, 6th Eurasian conference on OpenSees, OpenSees Days, 24th-25th July 2024, Beijing, China.

26 Rapone A., **Gabbianelli G.**, Milanesi R., Nascimbene R. (2024) Derivation of fragility functions for steel storage tanks using far- and near-field record sets, 6th Eurasian conference on OpenSees, OpenSees Days, 24th-25th July 2024, Beijing, China.

25 Mucedero G., Rapone A., Monteiro R., **Gabbianelli G.**, Ciucci M. (2024) Valutazione semplificata delle perdite economiche di scaffalature di stoccaggio in acciaio – Simplified Seismic Loss Assessment of Steel Storage Pallet Racks, XXIX Congresso dei Tecnici dell'Acciaio - C.T.A., 26th – 28th September 2024, Milan, Italy.

24 Calò M., **Gabbianelli G.**, Malomo D., Pinho R. (2024) Explicit modelling of structural collapse through the applied element method (AEM), 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

23 Perrone D., **Gabbianelli G.**, Micelli F., Ciucci M. (2024) Damage evaluation and mitigation in industrial facilities due to NATECH seismic events, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

22* Milanesi R.R., **Gabbianelli G.**, Gandelli E., Dubini P., Nascimbene R. (2024) The improvement of the seismic vulnerability of steel storage tanks with sliding isolators, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

21 Pinho R., Fontana C., Cavalieri F., Orgnoni A., **Gabbianelli G.** (2024) Experimental assessment of the collapse capacity of code-compliant R.C. frames, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

20 **Gabbianelli G.**, Venini P. (2024) Design of exoskeletal reinforcements via topology optimization, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

19 Milanesi R.R., Gotti A., **Gabbianelli G.**, Dubini P., Sarigiannis D., Nascimbene R. (2024) Seismic response of different typologies of tanks in chemical plants and impact on human health, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

18* **Gabbianelli G.**, Rapone A., Milanesi R.R., Brunesi E., Dubini P., Nascimbene R. (2024) Storage tanks seismic vulnerability assessment installed in industrial steel structures, 18th World Conference on Earthquake Engineering, 18WCEE, 30th June-5th July 2024, Milan, Italy.

17 Miglietta C., Perrone D., **Gabbianelli G.**, Micelli F., Ciucci M. (2024) Release of hazardous substance due to seismic loads: influence of pipe to tank connection in fragility estimation, Cisap 11 Conference, 15th – 18th September 2024, Naples, Italy.

16 Mucedero G., Couto R., Clemett N., **Gabbianelli G.**, Monteiro R. (2023) Implications of masonry infill-related uncertainty on the optimal seismic retrofitting of existing buildings, ICASP14, International Conference on Applications of Statistics and Probability in Civil Engineering, 9th-13th July 2023, Dublin, Ireland

15 Calò M., **Gabbianelli G.** (2023) Time-dependent assessment of corrosion impact on RC members, The Eighth International Symposium on Life-Cycle Civil Engineering: Life-Cycle of Structures and Infrastructure Systems, IALCCE, 2nd-6th July 2023, Milan, Italy. https://doi.org/10.1201/9781003323020-228

14* **Gabbianelli G.**, Simoncelli M. (2022) Modellazione di un dispositivo dissipativo per scaffalature metalliche – Dissipative device modelling for steel storage pallet racks, XXVIII Congresso dei Tecnici dell'Acciaio - C.T.A., 29th September – 1st October 2022, Francavilla al Mare, Italy.

13 Calò M., Mucedero G., Nicoletti V., **Gabbianelli G.** (2022) Wooden infills influence on the seismic performance of steel structures, 5th International Workshop on the Seismic Performance of Non-Structural Elements (SPONSE), 8th-9th December 2022, Palo Alto, California, USA.

12* **Gabbianelli G.**, Perrone D., Brunesi E., Monteiro R. (2022) Seismic vulnerability assessment of existing RC building considering infill and material uncertainties, 6th Workshop of New Boundaries of Structural Concrete, NBSC 2022, 8th - 9th September 2022, Lecce, Italy.

11 Gandelli E., **Gabbianelli G.**, Milanesi R., Dubini P., Nascimbene R., Pavese A. (2022) Refined numerical modelling of steel storage tanks implementing sliding isolators, 2nd Eurasian conference on OpenSees, OpenSees Days, 7th-8th July 2022, Turin, Italy. https://dx.doi.org/10.1007/978-3-031-30125-4_15

10* **Gabbianelli G.**, Perrone D., Nascimbene R., Paolacci F. (2022) Seismic vulnerability assessment and fragility functions derivations for steel storage legged tanks, Proc. of the ASME 2022, Pressure Vessels & Piping Conference, PVP2022, 17th - 22nd July 2022, Las Vegas, Nevada, USA.

9* **Gabbianelli G.**, Perrone D., Brunesi E., Monteiro R. (2022) Seismic fragility assessment of steel industrial storage tanks, Proc. of the ASME 2022, Pressure Vessels & Piping Conference, PVP2022, 17th - 22nd July 2022, Las Vegas, Nevada, USA.

8* **Gabbianelli G.**, Nicoletti V., Perrone D., Brunesi E. (2021) Influence of epistemic uncertainties on the seismic vulnerability assessment of an existing RC building, Proc. Of the 2nd fib Symposium on Concrete and Concrete Structures, 18th - 19th November 2021, Rome, Italy.

7* **Gabbianelli G.**, Perrone D., Brunesi E. (2021) Influence of beam-to-column connections in seismic vulnerability assessment of steel structures, 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2021, 28th - 30th June 2021, Athens, Greece. http://dx.doi.org/10.7712/120121.8629.19176

6 Carofilis W., Clemett N., **Gabbianelli G.**, O'Reilly G., Monteiro R. (2021) Selection of optimal seismic retrofitting for existing school buildings through multi-criteria decision making, 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2021, Athens, Greece, 28th - 30th June 2021. http://dx.doi.org/10.7712/120121.8558.19257

5 Calò M., Malomo D., **Gabbianelli G.**, Pinho R. (2021) How detailed should your masonry model be?, 14th Canadian Masonry Symposium, 16th - 19th May 2021, Montreal, Canada.

4 Calò M., Malomo D., **Gabbianelli G.**, Pinho R. (2020) Collapse analysis of a shake-table-tested full-scale URM building specimen with chimneys, 14th World Congress in Computational Mechanics (WCCM), ECCOMAS Congress 2020, 19th - 24th July 2020, Paris, France.

3* **Gabbianelli G.**, Carofilis W., Monteiro R. (2020) Evaluation of Different Retrofit Strategies for RC School Buildings using Integrated Multi-Criteria Procedures, 17th World Conference on Earthquake Engineering,

17WCEE, 13rd-18th September 2020, Sendai, Japan (Presented on 29th September 2021).

2* **Gabbianelli G.**, Cavalieri F., Nascimbene R. (2019) Seismic Fragility Curves of Steel Storage Pallet Racks, 4th International Workshop on the Seismic Performance of Non-Structural Elements (SPONSE), 22nd-23rd May 2019, Pavia, Italy.

1 Gobetti A., Rottenbacher C., **Gabbianelli G.**, Girello S., Simoncelli M. (2017) Caratterizzazione dinamica di sistemi leggeri per lo stoccaggio delle merci – Dynamic characterization of hand-loaded steel storage racks, Costruzioni Metalliche, XXVI Congresso dei Tecnici dell'Acciaio - C.T.A., 28th - 30th September 2017, Venice, Italy.

AWARDS AND RECOGNITIONS

July 2024	National Scientific qualification as associate professor (Abilitazione scientifica nazionale per professore di seconda fascia) in the Italian higher education system. Starting from July 8th, 2024, and expiring on July 8th, 2035.
From 2022	Member of the scientific committee of the 5th International Workshop on the Seismic Performance of Non-Structural Elements (SPONSE), 5th-7th December 2022, Palo Alto, California (USA)
From 2022	Member of ACI Italy Chapter
June 2022	Invited speaker at the Polytechnic University of Marche, Ancona, 24th June 2022. Title of the seminar: "*Numerical analysis and seismic vulnerability of structures*".
May 2022	Invited speaker at the Seminar "Ciclo di seminari nell'ambito del corso di Progetto di Costruzioni in Zona Sismica", University of Salento, Lecce, 24th-25th May and 1st June 2022. Title of the seminar: "*Scaffalature metalliche: progetto, analisi e sviluppi futuri*".
From 2022	Member of CTA (Collegio dei Tecnici dell'Acciaio).
November 2021	Keynote speaker at the Vebleo Webinar on Science, Engineering and Technology 27th-30th November 2021. Title of the keynote: "*Challenges and developments in steel storage pallet racks assessment*".
From 2021	Member of CTE (Collegio dei Tecnici della Industrializzazione Edilizia).
From 2021	Member of AICAP (Associazione Italiana Calcestruzzo Armato e Precompresso).
From 2021	Member of fib (Fédération internationale du béton).
From 2021	Member of fib (Fédération internationale du béton) Italy Young Member Group.
July 2021	Invited speaker at the Thematic Session "Seismic protection of non-structural components: recent developments and future challenges" of the 8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2021, Athens, Greece, 27th–30th June 2021. Title of the presentation: "*Industrial non-structural components: experience from past earthquakes and new trends*".
May 2020	Invited speaker at the Seminar "Valutazione e Progetto di scaffalature in zona sismica", EUCENTRE, Pavia, 3rd October 2019. Title of the presentation: "*Inquadramento normativo*".
From 2019	Member of the International Association for the Seismic Performance Of Non-Structural Elements - SPONSE.

November 2016	Invited speaker at the Seminar organised by the Department of Civil Engineering and Architecture, DICAr, University of Pavia, Pavia, 9th November 2016. Title of the presentation: "*Warping influence in the behaviour of steel storage pallet racks*".
October 2015	Invited speaker at the Special Session of the XXV CTA conference, Salerno, 1st–3rd October 2015. Title of the presentation: "*Design methods of steel frame systems*".
2011-2012	Part-time administrative collaborator at the University of Pavia. Grant reserved to students with a merit ranking among the whole University of Pavia – 150 hours.

OTHER ACADEMIC ACTIVITIES

November 2024 - Current	Member of the Communication Working Group of the Department of Civil Engineering and Architecture, University of Pavia.
November 2023	External reviewer for the post-doctoral Programme "METADIDAKTOR 2023" of Cyprus University of Technology.

SUPERVISION OF POST-DOCTORAL RESEARCHERS

Supervisor of the following post-doctoral research grants:

November 2023 – Current	Seismic performance assessment and seismic devices development for non-structural elements for industrial plants and logistic facilities. Bryan Chalarca. Funded by MITPLANT and DESRACK projects. *Institute: University of Pavia*

SUPERVISION OF PHD THESES

Supervisor or co-supervisor of the following PhD's theses:

5. a.y. 2025 – 2028	Dr. Jorge Ruiz *Advisor: Giammaria Gabbianelli* *Co-Advisor: Dr. Bryan Chalarca* *Institute: IUSS Pavia and University of Pavia*
4. a.y. 2025 – 2028	Dr. Wendwesen Haile *Advisor: Prof. Rui Pinho* *Co-Advisors: Giammaria Gabbianelli* *Institute: IUSS Pavia and University of Pavia*
3. a.y. 2023 – 2026	Tentative title: Anti-seismic devices for reducing the seismic vulnerability of structures and non-structural elements. Dr. Aldo Rapone *Advisor: Giammaria Gabbianelli* *Co-Advisor: Prof. Paolo Martino Calvi* *Institute: IUSS Pavia and University of Pavia*
2. a.y. 2019 – 2023	Accurate and computationally affordable estimation of the global and local response of RC wall cores subjected to torsional seismic loading. Dr. Andrea Orgnoni *Advisor: Prof. Rui Pinho* *Co-Advisor: Giammaria Gabbianelli* *Institute: IUSS Pavia and University of Pavia*
1. a.y. 2019 – 2022	Esamina dell'Applied Element Method: teoria ed applicazioni. Dr. Mattia Calò *Advisor: Prof. Rui Pinho* *Co-Advisors: Giammaria Gabbianelli and Daniele Malomo* *Institute: University of Pavia*

Supervisor of visiting PhD students from other Institutions:

1. February 2025 - July 2025	Dr. Ignasi Lopez Rull. Topic: development and validation of GBT (Generalised Beam Theory) software for steel storage pallet racks. *Advisor: Prof. Jordi Bonada Bo* *Institute: UPC Universitat Politècnica de Catalunya*

SUPERVISION OF MASTER'S THESES

42. a.y. 2024 – 2025 Alessandrini L.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Bryan Chalarca
Institute: University of Pavia

41. a.y. 2024 – 2025 Lora F.
Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

40. a.y. 2024 – 2025 *Tentative title*: Improvement of the seismic behaviour of steel storage racks through dissipative devices and machine learning techniques. Javeed B.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Prof. Mohsen Zaker Esteghamati (Utah State University), Dr. Emanuele Brunesi (Eucentre)
Institute: University of Pavia

39. a.y. 2024 – 2025 Influenza dell'ingobbamento nella prestazione strutturale delle costruzioni in acciaio. Raniolo A.
Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

38. a.y. 2024 – 2025 Progettazione sismica di strutture MRF in acciaio secondo EC8: confronto tra prima e seconda generazione. Ramponi O.
Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

37. a.y. 2024 – 2025 Valutazione numerico-sperimentale delle prestazioni sismiche di edifici esistenti isolati e degli effetti dell'invecchiamento sul loro sistema di isolamento alla base. Cobianchi A.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Bryan Chalarca, Dr. Aldo Rapone
Institute: University of Pavia

36. a.y. 2023 – 2024 Analisi numerica di dispositivi antisismici per il miglioramento del comportamento sismico di scaffalature metalliche. Tonello A.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Bryan Chalarca, Dr. Aldo Rapone
Institute: University of Pavia

35. a.y. 2022 – 2023 Valutazione dell'interazione struttura-incastellatura esterna in caso di evento sismico. Oglina S.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Bryan Chalarca, Dr. Aldo Rapone
Institute: University of Pavia

34. a.y. 2022 – 2023 Valutazione della tipologia strutturale ottimale tramite approcci multi-criterio. Fecchio D.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Aldo Rapone
Institute: University of Pavia

33. a.y. 2022 – 2023 Valutazione della vulnerabilità sismica dei capannoni industriali in acciaio. Buzukja G.
Advisor: Prof. Roberto Nascimbene
Co-Advisors: Dr. Giammaria Gabbianelli, Dr. Davide Bellotti, Dr. Aldo Rapone
Institute: University of Pavia

32. a.y. 2022 – 2023 Sviluppo di curve di fragilità per componenti di scaffalature metalliche. Sgrò D.
Advisor: Dr. Giammaria Gabbianelli

Co-Advisor: Dr. Gianrocco Mucedero, Dr. Aldo Rapone
Institute: University of Pavia

31. a.y. 2022 – 2023 Influenza dello smorzamento strutturale nella valutazione della domanda sismica di elementi non strutturali. Giorgio E.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Bryan Chalarca, Dr. Aldo Rapone
Institute: University of Pavia

30. a.y. 2022 – 2023 Derivazione delle curve di fragilità di un hangar aeroportuale. Duglio F.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisors: Dr. Federica Bianchi, Dr. Davide Bellotti
Institute: University of Pavia

29. a.y. 2022 – 2023 Valutazione della risposta non lineare di elementi in cemento armato tramite formulazione AEM. De Rosa F.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Rui Pinho
Institute: University of Pavia

28. a.y. 2022 – 2023 Analisi di instabilità di strutture in acciaio con formulazione AEM. Malisani F.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Rui Pinho
Institute: University of Pavia

27. a.y. 2022 – 2023 Nuova residenza universitaria in zona Cravino: the Peaks. Cesari M.
Advisor: Prof. Alessandro Greco
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

26. a.y. 2022 – 2023 Vulnerabilità e domanda sismica di serbatoi in acciaio in strutture industriali. Rapone A.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Roberto Nascimbene
Institute: University of Pavia

25. a.y. 2022 – 2023 Valutazione della risposta strutturale di pali poligonali per telecomunicazioni soggetti ad interventi di miglioramento. Akhnoukh F.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Ferdinando Auricchio
Institute: University of Pavia

24. a.y. 2021 – 2022 Dispositivi innovativi per il miglioramento delle prestazioni sismiche delle scaffalature metalliche. Imberti A.
Advisor: Dr. Marco Simoncelli
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: Politecnico di Milano

23. a.y. 2021 – 2022 Sviluppo di un dispositivo dissipativo per il miglioramento delle prestazioni sismiche di scaffalature metalliche. Manni D.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Roberto Nascimbene
Institute: University of Pavia

22. a.y. 2021 – 2022 Valutazione della vulnerabilità sismica di serbatoi cilindrici in acciaio. Martina S.
Advisor: Dr. Giammaria Gabbianelli
Co-Advisor: Prof. Roberto Nascimbene
Institute: University of Pavia

21. a.y. 2018 – 2019 Classificazione e fragilità sismica pre- e post- intervento di strutture adibite alla logistica industriale. Piazzai A.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

20. a.y. 2018 – 2019 Valutazione di vulnerabilità sismica di serbatoi industriali: comparazione fra metodologie di analisi e verifica. Trabatti A.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

19. a.y. 2018 – 2019 Trattamento delle incertezze epistemiche nella valutazione della vulnerabilità sismica di un edificio ospedaliero. Pellegrino I.
Advisor: Prof. Paolo Venini
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

18. a.y. 2018 – 2019 Curve di fragilità di strutture metalliche porta-pallet con trattamento delle incertezze epistemiche. Ciliberto S.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

17. a.y. 2018 – 2019 Influenza delle connessioni nella valutazione della vulnerabilità sismica di strutture in acciaio. Montafia A.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

16. a.y. 2018 – 2019 Analisi della risposta dinamica non lineare di una struttura industriale in acciaio al variare della direzione dell'input sismico. Alassi K.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

15. a.y. 2018 – 2019 Stima delle perdite economiche di un edificio soggetto ad azione sismica. Intorcia M.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

14. a.y. 2017 – 2018 Valutazione della vulnerabilità sismica e curve di fragilità di sistemi intelaiati industriali in acciaio. Almadori G.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

13. a.y. 2017 – 2018 Valutazione degli spettri di piano per scaffalature metalliche. Scovenna G.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

12. a.y. 2017 – 2018 Ottimizzazione strutturale della risposta sismica di telai in Acciaio: minimizzazione della norma-H ∞. Contessa M.
Advisor: Prof. Paolo Venini
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

11. a.y. 2017 – 2018 Derivazione di spettri di piano in accelerazione per un serbatoio inserito in una struttura industriale. Carazzato G.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

10. a.y. 2016 – 2017 Caratterizzazione numerico-sperimentale di scaffalature industriali automatizzate. Caredda L.
Advisor: Dr. Roberto Nascimbene
Co-Advisor: Dr. Giammaria Gabbianelli

Institute: University of Pavia

9. a.y. 2015 – 2016 Caratterizzazione numerico sperimentale in regime dinamico di profili aperti in parete sottile con sistemi regolari di forature. Ferrari C.
Advisor: Prof. Armando Gobetti
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

8. a.y. 2015 – 2016 Stima delle prestazioni di scaffalature metalliche in zona sismica. Belli G.
Advisor: Prof. Claudio Bernuzzi
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: Politecnico di Milano

7. a.y. 2015 – 2016 Un approccio innovativo per la progettazione di scaffalature metalliche in zona sismica. Pasut E.
Advisor: Prof. Claudio Bernuzzi
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: Politecnico di Milano

6. a.y. 2014 – 2015 Analisi numerica di profilati sagomati a freddo e dotati di sistemi regolari di forature. Albani E.
Advisor: Prof. Armando Gobetti
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

5. a.y. 2014 – 2015 Evaluation of the efficiency of a low-cost retrofitting technique on steel storage pallet racks. Ciantia M.
Advisor: Prof. Claudio Bernuzzi
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: Politecnico di Milano

4. a.y. 2014 – 2015 Seismic performance of industrial storage pallet racks. Tomescu S.
Advisor: Prof. Claudio Bernuzzi
Co-Advisor: Giammaria Gabbianelli
Institute: Politecnico di Milano

3. a.y. 2014 – 2015 Analisi di Pushover su scaffalature metalliche di tipo porta-pallet. Cognini F.
Advisor: Prof. Claudio Bernuzzi
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: Politecnico di Milano

2. a.y. 2013 – 2014 Sistemi industriali per lo stoccaggio delle merci: risposta ad azioni sismiche. Generelli G.
Advisor: Prof. Armando Gobetti
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

1. a.y. 2013 – 2014 Analisi comportamentale di strutture industriali per l'immagazzinamento delle merci. Rosti A.
Advisor: Prof. Armando Gobetti
Co-Advisor: Dr. Giammaria Gabbianelli
Institute: University of Pavia

EDITORIAL EXPERIENCE

- Member of the Editorial Board of "Discover Civil Engineering", Springer Nature.
- Co-organizer of the Mini-Symposia "Seismic Risk Assessment and Retrofitting Strategies for Steel Storage Racks" for 10th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2025, June 15th - 18th 2025, Rhodes Island, Greece.

- Member of the local organising committee for the "XXIX CTA Congress - Collegio dei Tecnici dell'Acciaio". 26th-28th September 2024, Milan, Italy.
- Convenors of the technical session "Modelling, analysis, design, assessment, retrofitting and testing of components and structures" with 49 papers for the 18th World Conference on Earthquake Engineering, 18WCEE, 30rd June-5th July 2024, Milan, Italy.
- Co-organizer of the Mini-Symposia "Beyond discontinuum-based analysis: novel approaches for Discrete Element structural modelling of composite materials" for 9th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2023, June 12th - 14th 2023, Athens, Greece
- Member of the Scientific Committee for the "Fifth International Workshop on Seismic Performance of Non-Structural Elements (SPONSE)". December 2022, Stanford University.
- Co-editor of the Proceedings of the "Fourth International Workshop on Seismic Performance of Non-Structural Elements (SPONSE)", May 2019, Pavia, Italy.
- Lead guest editor of the Special Issue "Towards the Assessment of Earthquake-Induced Damage for Buildings at Single and Regional Scale" in the journal "Buildings".

Component of the Editorial Board for the following scientific journals:
- Structural.

Component of the Reviewer Board for the following scientific journals:
- Frontiers in Built Environment;
- Applied Sciences;
- Buildings.

Peer reviewer for the following scientific journals:
- International Journal of Structural Stability and Dynamics;
- Advances in Civil Engineering;
- Structures;
- KSCE Journal of Civil Engineering;
- Engineering Structures;
- Bulletin of Earthquake Engineering;
- Steel and Composite Structures;
- Natural Hazards;
- Metals;
- Journal of Earthquake Engineering;
- Materials;
- Sustainability;
- Journal of Applied and Computational Mechanics;
- Canadian Journal of Civil Engineering;
- Journal of Building Engineering;
- Soil Dynamics and Earthquake Engineering;
- International Journal of Disaster Risk Reduction;
- Earthquake Engineering and Structural Dynamics;
- International Journal of Mechanical Sciences.

Peer reviewer for the following scientific conferences:
- ANIDIS;

- 12th National Conference on Earthquake Engineering (12NCEE), Earthquake Engineering Research Institute (EERI).

LANGUAGES

Mother tongue: Italian

Other languages	UNDERSTANDING		SPEAKING	WRITING
	Listening	Reading		
English	C1	C2	C1	C1

Levels: A1/2: Basic user – B1/2: Independent user – C1/2: Proficient user
Common European Framework of Reference for Languages

Certifications: IELTS – International English Language Testing System – Score: 5.5 – 7th July 2011.

COMPUTER SKILLS

Programming languages	C# (advanced), Matlab (advanced), Visual Basic (advanced), Visual Basic for Applications (advanced), Tcl (advanced), Fortran (intermediate), Python (intermediate), C++ (beginner).
Finite element software	OpenSees (advanced), OpenSeesPy (advanced), SAP2000 (advanced), SeismoStruct (advanced), ConSteel (advanced), Abaqus (intermediate), Midas GEN (advanced), Midas GTS (intermediate), Adina (beginner), MarcMentat (beginner), Extreme Loading for Structures (beginner).

Date

30 October 2025

Giammaria Gabbianelli

I authorize the processing of my personal data, including sensitive data, in accordance with Regulation (EU) 2016/679 (GDPR), solely for the purposes of recruitment and candidate management.