

# Giulio Zani

Alma Mater Studiorum - Università di Bologna  
Department of Civil, Chemical, Environmental and Materials Engineering  
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Born: October 13, 1983—Sondrio, Italy  
Nationality: Italian

## Current position

Tenure Track Assistant Professor of Structural Analysis and Design  
Alma Mater Studiorum - Università di Bologna  
Department of Civil, Chemical, Environmental and Materials Engineering

Adjunct Professor of Structural Analysis and Design  
Politecnico di Milano  
Department of Civil and Environmental Engineering

## Research interests

Structural engineering; high-performance cement-based materials for new construction and structural retrofitting; materials and structural testing; bridge engineering; preservation and sustainable regeneration of modern reinforced concrete architecture

## Academic record

- 2025 *Visiting Researcher*, University of Tokyo, Tokyo, Japan
- 2023-01 *National scientific qualification as Associate Professor of Structural Engineering in the Italian higher education system*, Italian Ministry of University and Research
- 2021-2026 *RTD-A Researcher*, Politecnico di Milano, Milan, Italy
- 2019-2020 *Research collaborator (professional appointment)*, Politecnico di Milano, Milan, Italy
- 2013-2019 *Postdoctoral Research Fellow*, Politecnico di Milano, Milan, Italy
- 2012 *Visiting Scholar*, Arizona State University, Tempe, Arizona, USA
- 2009 *Research Fellow*, Politecnico di Milano, Milan, Italy

## Education

- 2013 PhD *cum laude* in Structural, Seismic, Geotechnical Engineering, Politecnico di Milano
- 2008 MSc *cum laude* in Building Engineering/Architecture, Politecnico di Milano

## Research projects

- 2025-01 *Partner Project Representative and local PhD student supervisor* in the PID2024-160634NB-I00 project "TRCMARINE - Hormigón textil como material durable en ambientes agresivos marinos y aplicación a espaldones de diques", awarded under the Spanish Proyecto de Generación de Conocimiento 2024 Call. Coordinator Prof. Leonardo Todisco
- 2023-01 *Partner Project Representative and Local Coordinator* in the Erasmus+ Partnerships for Innovation - Forward Looking Project "CONCRETO: Empowering the green rehabilitation of European Concrete Architecture". Coordinator Ms. Elisabetta Margiotta Nervi
- 2022-2025 *Participant* in the PNR research project "RETURN: Multi-Risk Science for Resilient Communities under a Changing Climate" - activities of Spoke 6-TS2 "Critical Infrastructures" - WP2, WP4, WP6. Coordinator of the spoke Prof. Pierluigi Claps. Results published in [IC64]
- 2022-2023 *Co-Scientific Responsible* of the research activities carried out within the experimental tests commissioned by Amplia spa to Politecnico di Milano, for the mechanical, chemical and resilience testing of steel tubes for micropiles applications. Coordinator Prof. Marco di Prisco
- 2022-2024 *Responsible of work package* in the Polisocial Award project "I-FERME - Intelligent Infrastructure dEsign foR a Multifunctional Efficient farm". Coordinator Prof. Francesco Castelli Dezza. Results published in [IJ24, IC66]
- 2022-2023 *Responsible* of Level 1 classification of 4 bridges according to the Italian Guidelines, within the research project "Execution of geometric and defectological surveys of bridges using laser scanning and photogrammetry", promoted by the Politecnico di Milano - Department of Civil and Environmental Engineering and the Province of Brescia. Coordinator Prof. Livio Pinto. Results published in [IC56]
- 2022-2025 *Participant* in the PRIN 2020 research project "FIRMITAS: multi-hazard assessment, control and retrofit of bridges for enhanced Robustness using sMART IndusTriAlized Solutions". Coordinator Prof. Marco di Prisco. Results published in [IJ22, IC65, IC62, IC60]
- 2022-2024 *Assistant Coordinator, Project Manager, Risk Manager and Dissemination Manager* in the Erasmus+ KA220 HED proposal "REcube: REthink, REvive, REuse - Transmitting the knowledge for the green regeneration of the European Concrete Heritage". Coordinator Prof. Marco di Prisco. Results published in [IJ21]
- 2021-2025 *Participant* in the Reluis research project "Experimentation of guidelines for risk classification and management, safety assessment, and monitoring of existing bridges", within the Politecnico di Milano research unit (WP2 and WP4). Coordinator Prof. Marco di Prisco. Results published in [IJ15, IJ19, IC68, IC67, IC59, IC38, IC34]
- 2020-2022 *Participant* in the research project "Monitoraggio di ponti fluviali in Provincia di Mantova" promoted by Politecnico di Milano - Department of Civil and Environmental Engineering and Provincia di Mantova, focusing on the validation of monitoring strategies of existing bridges. Coordinator Prof. Francesco Ballio
- 2020-2021 *Participant* in the research cooperation between Politecnico di Milano, University of Brescia and the companies ArcelorMittal and Bekaert, focusing on the structural behavior of fiber-reinforced

- concrete (FRC). Coordinators Prof. Marco di Prisco and Prof. Giovanni Plizzari. Results published in [IJ17, IC56]
- 2020-2022 *Participant* in the research project promoted by Politecnico di Milano - Department of Civil and Environmental Engineering (DICA) and ANAS Spa, focusing on the optimization of Bridge Maintenance Systems (BMS) and the development of Maintenance Plans for existing infrastructures. Coordinator Prof. Marco di Prisco. Results published in [IJ14, IC36]
- 2019-2022 *Participant* in the research project “Definizione di criteri e linee guida per la manutenzione e gestione delle Infrastrutture viarie”, promoted by Politecnico di Milano and Regione Lombardia, focusing on the development of innovative approaches for the structural assessment and monitoring of existing regional bridges. Coordinator Prof. Ferruccio Resta. Results published in [IC25, IC30]
- 2018-2020 *Participant* in the research project promoted by Politecnico di Milano - DICA and Enel Green Power Spa, focusing on the use of Fiber-Reinforced Concrete for the optimization of wind turbine foundations by means of experimental and numerical approaches. Coordinator Prof. Marco di Prisco. Results published in [IC31]
- 2017-2021 *Participant* in the research project promoted by Politecnico di Milano - DICA and Magnetti Building Spa, focusing on the structural optimization of innovative FRC-based elevated slab systems and material optimization of HPC mixes for architectural applications. Coordinator Prof. Marco di Prisco. Results published in [IC26]
- 2017-2021 *Participant* in the research project promoted by Politecnico di Milano - DICA and a consortium of private companies (BASF/Master Builders Italia, Arup, Gavazzi Tessuti Tecnici, BMS), focusing on the development of advanced cementitious materials for the retrofitting and upgrading of existing structures. Coordinator Prof. Marco di Prisco. Results published in [IJ5, IC19, IC22, IC24, IC27, IC4, IC6, IC10, IC12, NC8]
- 2017-2019 *Participant* in the SMART P.I.Q.U.E.R research project, devoted to the development of innovative cement-based façade panels. Research responsible Prof. Marco di Prisco. Results published in [IC20]
- 2016 *Participant* in the the research project "Structural design and numerical modelling of sustainable pre-stressed concrete railway sleepers", funded by Greenrail Group Srl in collaboration with Fondazione Politecnico di Milano. Research responsible Prof. Marco di Prisco
- 2014-2018 *Responsible* for the 3D numerical analyses of the Azzone Visconti bridge in Lecco. Activity developed in the framework of the cooperation between Politecnico di Milano - Lecco Campus and the Lecco Municipality. Research responsible Prof. Marco di Prisco. Results published in [IJ4, IJ7, IJ8]
- 2013-2016 *Participant* in the research activity focusing on the design and testing of lightweight elevated slabs made with advanced cementitious composites (VHPFRCC and TRC). Activity developed in the framework of the cooperation between Politecnico di Milano - DICA and the company Mangiavacchi Pedercini Spa. Research responsible Prof. Marco di Prisco. Results published in [IC11, IC13, NC4, NC6]
- 2012-2015 *Participant* in the Lombardy Region S.I.N.E.R.G.I.E ATTIV.E (Sistema integrato sostenibile energeticamente attivo per il rinnovo degli edifici industriali attraverso coperture composite) project (decree number 7128 of July 29th, 2011), focusing on the development of sustainable cement-based roofing panels (coordinator Prof. Marco di Prisco). Results published in [IJ6, IC4, IC5, IC9, IC14, IC15, IC18, IC20, NC2, NC7]

- 2010-2021 *Member* of the Politecnico di Milano Research Unit of the ReLUIIS (Rete dei Laboratori Universitari di Ingegneria Sismica) consortium, focusing on the study and application of advanced cementitious materials for the retrofitting and upgrading of existing structures subjected to seismic loads. Research responsible Prof. Marco di Prisco, ReLUIIS-DPC 2010-2013, 2014-2018, 2019-2021. Results published in [IJ5, IC16, IC19, IC24, IC27, NC8]
- 2009-2020 *Participant* in the research project related to the use of very high-performance fiber reinforced cementitious composites (VHPFRCC). Research cooperation between Politecnico di Milano and the company BASF SE (now Master Builders Italia Spa). Research responsible Prof. Marco di Prisco. Results published in [IC6, IC8, IC10, IC17, IC23, NC5]
- 2009-2020 *Participant* in the research project on TRC (Textile Reinforced Concrete) in the framework of the cooperation between the company Gavazzi Tessuti Tecnici Spa and Politecnico di Milano. Research responsible Prof. Marco di Prisco. Results published in [IJ1, IC2, IC3, NC3]
- 2009-2012 *Participant* in the Interreg "Accident" project (Advanced Cementitious Composite In Design and coNstruction of safe Tunnels: ID7629770 - Measure 2.2). Partners involved: 2 Universities (Politecnico di Milano and SUPSI), 3 Swiss companies and 4 Italian companies. Research coordinator Prof. Marco di Prisco

## Research proposals

- 2023 *Partner Project Representative* in the CONCRETO proposal "Empowering the green rehabilitation of European Concrete Architecture", Erasmus+ Partnerships for Innovation - Forward Looking Projects call 2023 - requested grant 964 k€, **proposal approved** (score 82/100) - awarded grant 964 k€
- 2022 *Responsible of work package* in the I-FERME proposal "Intelligent inFrastructure dEsign foR a Multifunctional Efficient farm". Polisocial Award 2022 call - requested grant 100 k€, **proposal approved** (score 84/100), involved Departments DMEC, DICA, DEIB and DENG - awarded grant 100 k€
- 2022 *Partner Project Representative* in the CONCRETO proposal "Empowering the Green Rehabilitation of European Concrete Heritage", Erasmus+ Partnerships for Innovation - Forward Looking Projects call 2022 - requested grant 783 k€, proposal rejected
- 2022 *Principal Investigator* in the Fondazione Cariplo proposal "ReCoNStruct: Recycling Construction & Demolition Waste for Next-generation reusable prefabricated Structures". Partner Institutions: Università di Salerno and COPPE Institute of the Universidade Federal do Rio de Janeiro. Call 2022 on Circular Economy - Promoting research for a sustainable future - requested grant 300 k€, proposal rejected
- 2021 *Principal Investigator* in the Fondazione Cariplo proposal "ReCoNStruct: Recycling Construction & Demolition Waste for Next-generation reusable prefabricated Structures". Partner Institutions: Università di Salerno and COPPE Institute of the Universidade Federal do Rio de Janeiro. Call 2021 on Circular Economy: research for a sustainable future - requested grant 300 k€, proposal rejected
- 2021 *Assistant Coordinator, Project Manager, Risk Manager and Dissemination Manager* in the Erasmus+ KA220 HED proposal "REcube: REthink, REvive, REuse - Transmitting the knowledge for the green regeneration of the European Concrete Heritage". Consortium among Politecnico di Milano (applicant), 10 European Universities, 1 Association and 1 Foundation. Call 2021 Round 1 KA2 - requested grant 400 k€, **proposal approved** (score 98/100) - awarded grant 400 k€

- 2021 *Writing Coordinator* in the PRIN 2020 proposal "FIRMITAS: multi-hazard assessment, control and retroFit of bridges for enhanced Robustness using sMart IndusTriAlized Solutions". Partner Institutions: I.U.S.S. - Istituto Universitario di Studi Superiori Pavia, Università degli Studi di Napoli Federico II, Università degli Studi di Parma and Università degli Studi Roma Tre. Call 2020 - requested grant 963 k€, **proposal approved** (score 100/100) - awarded grant 781 k€
- 2020 *Assistant Coordinator* in the Erasmus+ KA203 HED proposal "REcube: REpair, REvive, REuse - Enhancing the knowledge about how to preserve modern and contemporary concrete architecture in Europe". Consortium among Politecnico di Milano (applicant), 7 European Universities and 2 Associations. Call 2020 Round 1 KA2 - requested grant 450 k€, proposal rejected for insufficient funds

### Third-party contracts and professional activities

- 2023 *Scientific Responsible* for two test on commission contracts "Analisi numeriche lineari su modelli tridimensionali di infrastrutture da ponte". Clients: Eng. Alberto Colombo, Eng. Narghes Doust - global budget 10 k€
- 2022 *Scientific Responsible* for the consultancy contract "Attività di Innovation Mentoring e Technical Analysis and Assistance nel progetto DeConStRAction – Towards Next-generation Deconstructable Concrete Structures made of Recycled Aggregates from Construction & Demolition Waste, presentato nella prima edizione della call Metabuilding Grow/Harvest". Client: TESIS srl - budget 13,3 k€. Results published in [IJ13, IC47, IC46]
- 2021 *Scientific Responsible* for the test on commission contract "Analisi strutturale di elementi in vetro e dei relativi sistemi di fissaggio". Client: Cooproggetti srl - budget 7 k€
- 2020 *Appointed* for professional services (P.IVA appointment) in the framework of the collaboration agreement "Definizione di criteri e linee guida per la manutenzione e gestione delle Infrastrutture viarie", Politecnico di Milano, Department of Civil and Environmental Engineering
- 2019 *Appointed* for professional services (P.IVA appointment) in "Static Verifications and Experimental Investigations of Bridge Structures", Politecnico di Milano, Department of Civil and Environmental Engineering
- 2008 *Structural engineer* at Studio Iorio, responsible for the design and structural sizing of steel structures

### Supervision experience

#### PHD STUDENTS

- 2018-2021 *Co-supervisor* of the PhD thesis *Glass Fabric-Reinforced Cementitious Matrix (GFRCM) composites: strengthening and retrofitting of existing reinforced concrete structures*, authored by Marco Carlo Rampini - Politecnico di Milano, Doctoral programme in Structural, Seismic, Geotechnical Engineering

#### MSc STUDENTS

- 2023-on *Supervisor* of 5 MSc theses - Politecnico di Milano, School of Architecture Urban Planning Construction Engineering and School of Civil, Environmental and Land Management Engineering ([list available at POLITesi](#))
- 2020-on *Examiner* of 5 MSc theses in Building Engineering/Architecture, 2 MSc thesis in Civil Engineering

and 1 MSc thesis in Building Engineering - Politecnico di Milano, School of Architecture Urban Planning Construction Engineering and School of Civil, Environmental and Land Management Engineering

2010-01 *Co-supervisor* of more than 70 MSc theses - Politecnico di Milano, School of Architecture Urban Planning Construction Engineering and School of Civil, Environmental and Land Management Engineering ([list available at POLITesi](#))

### **BSc STUDENTS**

2010-01 *Co-supervisor* of 2 BSc theses - Politecnico di Milano, School of Civil, Environmental and Land Management Engineering

### **Teaching experience**

2024-01 *Organizer* of the innovative teaching course "CONCRETO: hands-on rehabilitation of the European concrete heritage" (editions 2024, 2025 and 2026, 6 CFU). Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering

2022-2025 *Organizer* of the innovative teaching course "REcube: green regeneration of the European concrete heritage" (editions 2022, 2023 and 2024, 3 CFU) and *owner of the Cineca Bestr "Passion in Action organizer" badge*. Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering

2021-01 *Lecturer* of "Structural design - Progetto di Strutture", ICAR/09, 6 CFU, Politecnico di Milano, MSc programme in Building Engineering/Architecture, School of Architecture, Urban Planning, Construction Engineering

2020-2025 *Lecturer* of "Structural Safety: Vulnerability and Intervention Techniques - Sicurezza strutturale: vulnerabilità e tecniche di intervento", ICAR/09, 5 CFU, Politecnico di Milano, BSc programme in Civil Engineering for Risk Mitigation, School of Civil, Environmental and Land Management Engineering

2019-2020 *Lecturer* of "Structural Design", ICAR/09, 4 CFU, Politecnico di Milano, MSc programme in Architecture and Urban Design, School of Architecture, Urban Planning, Construction Engineering (taught in English)

2015-2020 *Teaching Assistant* of "Precast Structures" (ICAR/09, Prof. L. Ferrara), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)

2013-2020 *Teaching Assistant* of "Mechanics of Materials and Inelastic Constitutive Laws" (ICAR/08, Prof. C. Comi), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)

2013-2016 *Teaching Assistant* of "Structural Analysis and Design - Tecnica delle Costruzioni" (ICAR/09, Prof. M. Colombo), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering

2011-2012 *Teaching Assistant* of "Structural Analysis and Design - Tecnica delle Costruzioni" (ICAR/09, Prof. P. Bamonte), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering

2011-2012 *Teaching Assistant* of "Advanced Cementitious Composites for Seismic Retrofitting" (ICAR/09, Prof. M. di Prisco), Politecnico di Milano, School of Civil, Environmental and Land Management Engineering (taught in English)

- 2009-2020 *Teaching Assistant* of "Advanced Structural Design - Progetto di Strutture" (ICAR/09, Prof. M. di Prisco), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering
- 2009-2011;  
2012-2014 *Teaching Assistant* of "Reinforced Concrete and Steel Structures Design Lab - Laboratorio di Costruzioni" (ICAR/09, Prof. M. Colombo, MSc. M. Scola), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering
- 2008-2011 *Teaching Assistant* of "Technological Design - Progettazione degli elementi costruttivi" (ICAR/II, Prof. G. Masera), Politecnico di Milano, School of Architecture, Urban Planning, Construction Engineering

## Institutional activities

- 2024-01 *Organizer* of the high school outreach course "Laboratorio pratico e interattivo di Ingegneria Strutturale", offered as part of the "DICA4Schools" orientation program. Politecnico di Milano, Department of Civil and Environmental Engineering
- 2024-01 *Co-organizer* of the high school orientation course "Strutture e interazioni con il terreno", offered as part of the "Orientamento 2026-Orientamento attivo nella transizione scuola università" program. Politecnico di Milano
- 2024 *Scientific Representative* of the event "The initiatives of the Laboratorio Nervi: a showcase of European students innovations in the regeneration of 20th-century concrete architecture" - Collateral activity of the New European Bauhaus Festival 2024, to be held at the Lecco Campus of the Politecnico di Milano
- 2023 *Scientific Representative* of the event "Transmitting the knowledge for the green regeneration of the European Concrete Heritage: the Pier Luigi Nervi physical Laboratory and the REcube cooperation partnership in higher education" - Collateral activity of the New European Bauhaus Festival 2023, organized at the Lecco Campus of the Politecnico di Milano
- 2023-01 *Organizer* of the PoliSTEM orientation module "Strutture: forze e segreti" - Educational workshops for lower secondary schools on the Lecco Campus of the Politecnico di Milano
- 2022-01 *Responsible* for multiple outreach activities of the Laboratorio Nervi on the Lecco Campus of the Politecnico di Milano. In more than 15 events, the activities of the Laboratorio Nervi have been disseminated to local and international university students, boards of professional architects and engineers, high school students, and public at large
- 2022-01 *Delegate* of the President of the MSc in Building Engineering/Architecture for the students' study plans, School of Building Engineering/Architecture, Politecnico di Milano
- 2022-01 *Delegate representative* of the courses group "Construction Physics and Materials" (consisting of 12 courses) within the MSc in Building Engineering/Architecture, School of Building Engineering/Architecture, Politecnico di Milano
- 2021-01 *Participant* in multiple orientation activities developed for high school and middle school students within the BSc in Civil Engineering for Risk Mitigation and the MSc in Building Engineering/Architecture
- 2021-2022 *Member* of the Editorial Board of the BSc in Civil Engineering for Risk Mitigation, School of Civil and Environmental Engineering, Politecnico di Milano
- 2021 *Member of the electoral committee* for the election of the Dean of the School of Civil and Environmental Engineering for the three-year period 2022-2024, Politecnico di Milano
- 2020-01 *Member* of many "brainstorming commissions" for the preliminary evaluation of MSc theses in

## Publications

### INTERNATIONAL JOURNAL ARTICLES

- [IJ.25] **Zani, G.**, A. Scalbi, K. Flores Ferreira, L. Benedetti, C. Somaschini, G. Cazzulani. "Behavior of a Mid-20th-Century RC Bridge under Anthropogenic Loads: Structural Assessment and Monitoring-Based Modeling". *Journal of Bridge Engineering* (submitted).
- [IJ.24] Toscani, N., M. Benvenuti, I. M. Carraretto, A. Cavallo, G. Cornaggia, C. D'Ignazi, M. C. Rampini, **G. Zani**, G. Tomasini, F. Castelli Dezza. "Multidisciplinary Strategies for the Sustainable Development of Community Farms in Remote Areas". *Scientific Reports* (under review).
- [IJ.23] Biondini, F., F. Ballio, M. di Prisco, S. Bianchi, M. D'Angelo, **G. Zani**, L. Capacci, M. Anghileri, A. Scalbi, K. Flores Ferreira, M. Arena, G. Azzone, A. Torti, P. Secchi, S. Vantini, C. Gentile, M. P. Limongelli, P. Borlenghi, G. Zonno, L. Benedetti, G. Cazzulani, C. Somaschini, M. Belloli, F. Resta, P. Vigo, A. Colombo. "Risk-Based Prioritization and Management of Bridges and Road Infrastructure Networks at Regional Scale". *Structure and Infrastructure Engineering* (under review).
- [IJ.22] Rampini, M. C., G. Cornaggia, **G. Zani**, P. Martinelli, M. di Prisco. "Comparative risk estimation of bridges under fire, impact, and blast hazards: groundwork for prioritization criteria in the Italian guidelines". *Structure and Infrastructure Engineering* (accepted for publication).
- [IJ.21] Margiotta Nervi, E., **G. Zani**, and M. di Prisco. "On the preservation of reinforced concrete architectural masterpieces: the challenges of the REcube project". *Structural Concrete* (published online).
- [IJ.20] **Zani, G.**, M. C. Rampini, N. Russo, F. Lollini and M. di Prisco. 2025. "A seven-year investigation on the flexural performance of cement-based multi-layered roof elements exposed to outdoor conditions". *Structural Concrete* 26(5), pp. 5726–5742.
- [IJ.19] Flores Ferreira, K., M. C. Rampini, B. Belletti, B. Calcavecchia, G. Camata, D. D'Angela, C. Di Salvatore, N. Di Stefano, E. Faccin, M. F. Granata, F. Iavarone, L. La Mendola, G. Magliulo, P. Martinelli, G. Menichini, D. Messina, F. Minelli, M. Orlando, G. Plizzari, S. Ravasini, A. Recupero, E. Spacone, N. Spinella, F. Tuozzo, **G. Zani**, and M. di Prisco. 2025. "Reinforced concrete dapped-end beams for existing bridges: reliability of finite element models". *Structural Concrete* 26(4), pp. 4496–4531.
- [IJ.18] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2024. "Advancing Construction Techniques: Textile Reinforced Concrete Shells and High-Performance Fiber-Reinforced Concrete Beams for Partially Prefabricated Elevated Slabs". *Structures*, 70, 107710.
- [IJ.17] Basci, S., **G. Zani**, and M. Colombo. 2025. "Ultra High Performance Fiber Reinforced Concrete multi-cracking analysis in different flexural characterization tests". *Construction and Building Materials*, 461, 139889.
- [IJ.16] Colombo, M., A. Conforti, M. di Prisco, B. Leporace-Guimil, G. Plizzari, **G. Zani**. 2023. "The ductility evaluation in SFRC structures: an investigation on plates and shallow beams". *Structural Concrete*, 24(4), pp. 4406–4423.

- [IJ.15] Flores Ferreira, K., M.C. Rampini, **G. Zani**, M. Colombo, M. di Prisco. 2023. "Experimental investigation on the use of Fabric-Reinforced Cementitious Mortars for the retrofitting of reinforced concrete dapped-end beams". *Structural Concrete* 24(4), pp. 4577–4605.
- [IJ.14] Scalbi, A., **G. Zani**, M. di Prisco, P. Mannella. 2023. "The role of maintenance plans on serviceability and life extension of existing bridges". *Structural Concrete* (in press).
- [IJ.13] Menegatti, L.C., L.I. Castrillon Fernandez, L.R. Caldas, M. Pepe, F. Pittau, **G. Zani**, M.C. Rampini, J. Michels, R.D. Toledo Filho, E. Martinelli. 2022. "Environmental Performance of Deconstructable Concrete Beams Made with Recycled Aggregates". *Sustainability* 14, 11457.
- [IJ.12] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2022. "Stiffness degradation of textile-reinforced mortar under unloading-reloading tensile cycles." *Journal of Composites for Construction* 27(1):04022083-1-13.
- [IJ.11] Limongelli, M. P., C. Gentile, F. Biondini, M. di Prisco, F. Ballio, G. Zonno, P. Borlenghi, S. Bianchi, L. Capacci, M. Anghileri, **G. Zani**, A. Scalbi, K. Flores Ferreira, M. D'Angelo, G. Cazzulani, L. Benedetti, C. Somaschini, L. Bernardini, M. Belloli, F. Resta, P. Vigo, and A. Colombo. 2022. "Bridge structural monitoring: the Lombardia regional guidelines." *Structure and Infrastructure Engineering* (in press).
- [IJ.10] **Zani, G.**, P. Martinelli, M. di Prisco M. 2022. "Role of the tensile constitutive modeling on the structural response of fiber reinforced concrete flat slabs: A numerical study." *Structural Concrete* 24(1), pp. 1313–1327.
- [IJ.9] Rampini, M. C., **G. Zani**, L. Schouler, M. Colombo, and M. di Prisco. 2021. "Effect of textile characteristics on the AR-glass fabric efficiency." *Textiles (Switzerland)* 1:387–404.
- [IJ.8] **Zani, G.**, P. Martinelli, A. Galli, and M. di Prisco. 2020. "Three-Dimensional Modelling of a Multi-Span Masonry Arch Bridge: Influence of Soil Compressibility on the Structural Response under Vertical Static Loads." *Engineering Structures* 221:110998.
- [IJ.7] **Zani, G.**, P. Martinelli, A. Galli, C. Gentile, and M. di Prisco. 2019. "Seismic Assessment of a 14th-Century Stone Arch Bridge: Role of Soil–Structure Interaction." *Journal of Bridge Engineering* 24(7):05019008.
- [IJ.6] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2019. "Bending Behavior of Cement-Based Multi-Layered Roof Elements." *Engineering Structures* 190:101–15.
- [IJ.5] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. "Mechanical Behaviour of TRC Composites: Experimental and Analytical Approaches." *Applied Sciences (Switzerland)* 9(7):1492.
- [IJ.4] di Prisco, M., M. Scola, and **G. Zani**. 2019. "On Site Assessment of Azzone Visconti Bridge in Lecco: Limits and Reliability of Current Techniques." *Construction and Building Materials* 209:269–82.
- [IJ.3] Dey, V., **G. Zani**, M. Colombo, M. di Prisco, and B. Mobasher. 2015. "Flexural Impact Response of Textile-Reinforced Aerated Concrete Sandwich Panels." *Materials and Design* 86:187–97.
- [IJ.2] Pignataro, M. A., G. Lobaccaro, and **G. Zani**. 2014. "Digital and Physical Models for the Validation of Sustainable Design Strategies." *Automation in Construction* 39:1–14.
- [IJ.1] Colombo, I. G., A. Magri, **G. Zani**, M. Colombo, and M. di Prisco. 2013. "Erratum: Textile Reinforced Concrete: Experimental Investigation on Design Parameters (Materials and Structures (2013))." *Materials and Structures/Materiaux et Constructions* 46(11):1953–71.

## BOOKS

- [B.1] I. G. Colombo, M. Colombo, M. di Prisco, A. Magri, P. Martinelli, L. Mazzoleni, **G. Zani**. 2023. Structural Analysis of Plane Frames - Solved Examples with Force and Displacement Methods. *Springer Tracts in Civil Engineering*.

## INTERNATIONAL BULLETINS

- [IB.1] J. Walraven, M. di Prisco, E. Fehling, F. Toutlemonde, T. Leutbecher, J. Thiemicke, **G. Zani**. 2022. Chapter 13 of the *fib* bulletin n. 105 "Fibre Reinforced Concrete". Title of the chapter: *Ultra High Performance Fibre Reinforced Concrete*.

## INTERNATIONAL CONFERENCE PROCEEDINGS AND BOOK CHAPTERS

- [IC.69] Saccomanno, C., M. C. Rampini, **G. Zani**, and F. Romeo. 2025. "Numerical Modelling of TRC Shell Formworks: From Homogenized Approaches to Explicit Textile Simulation." In *Proceedings of the Rilem 2026 Spring Convention*. Ghent, Belgium, 2026 (accepted paper).
- [IC.68] Flores Ferreira, K., M. C. Rampini, **G. Zani**, and M. di Prisco. 2025. "Analytical investigation on the structural impact of chloride-induced corrosion in reinforced concrete dapped-end beams." In *Proceedings of fib CACRCS days 2025*. Lecco, Italy, 2025.
- [IC.67] Flores Ferreira, K., M. C. Rampini, **G. Zani**, N. Russo, F. Lollini, D. Scaccabarozzi, E. Zappa, and M. di Prisco. 2025. "The effects of artificial corrosion on reinforced concrete structures: experimental campaign on small-scale beam specimens." In *Proceedings of fib CACRCS days 2025*. Lecco, Italy, 2025.
- [IC.66] **Zani, G.**, M. C. Rampini, G. Cornaggia. 2025. "A simplified design approach for small river crossings in African rural areas". In *Proceedings of the International fib Symposium on the Conceptual Design of Structures*. Rio de Janeiro, Brazil, 2025.
- [IC.65] Colombo, M., G. Cornaggia, **G. Zani**, and M. di Prisco. 2025. "UHPFRC slabs for retrofitting half joints bridges." In *Proceedings of the International Symposium of the International Federation for Structural Concrete, fib Symposium 2025*. Antibes, France, 2025.
- [IC.64] Abbozzo, A., **G. Zani**, and M. di Prisco. 2024. "A new approach to improve safe exceptional transportation: a Proof of Concept in the framework of NRRP." In *Proceedings of the 15th fib International PhD Symposium in Civil Engineering*, edited by G. L. Balazs, S. Solyom, S. Foster. Budapest, Hungary.
- [IC.63] Gaddi, C., C. Lega, C. Rota Graziosi, **G. Zani**, and M. di Prisco. 2024. "Sustainable concrete-based interventions for the structural retrofitting of Manifattura Tabacchi in Bologna by Pier Luigi Nervi." In *Proceedings of the 7th RILEM Spring Convention*. Milano, Italy, 2024.
- [IC.62] Pittau, F., G. Cornaggia, P. Martinelli, **G. Zani**, and M. di Prisco. 2024. "UHPFRC as low-carbon solution for bridge rehabilitation: the case study of Annone overpass." In *Proceedings of the fib ICCS24 – International Conference on Concrete Sustainability*. Guimarães, Portugal, 2024.
- [IC.61] Rampini, M. C., M. Pepe, **G. Zani**, J. Michels, E. Martinelli. 2024. "Innovative deconstructable shallow beams with recycled aggregate concrete and shape memory steel reinforcement: from test to design approach". In *Proceedings of the Italian Concrete Days 2024*. Firenze, Italy, 2024.
- [IC.60] Rampini, M. C., **G. Zani**, G. Cornaggia, P. Martinelli, M. di Prisco. 2024. "Critical assessment of bridge maintenance Guidelines in Italy: addressing the parameters needed for fire, impact, and blast risk evaluation". In *Proceedings of the Italian Concrete Days 2024*. Firenze, Italy, 2024.

- [IC.59] Flores Ferreira, K., M. C. Rampini, **G. Zani**, M. Colombo, and M. di Prisco. 2023. "Reinforced concrete dapped-end beams subjected to corrosion-induced deterioration: a preliminary numerical investigation." In *Proceedings of the Third fib Italy YMG Symposium on Concrete and Concrete Structures* (Accepted Paper, in press). Torino, Italy, 2023.
- [IC.58] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2023. "Analytical interpretation of the mechanical behaviour of FRCM-strengthened RC coupling beams." In *Proceedings of the Third fib Italy YMG Symposium on Concrete and Concrete Structures*. Torino, Italy, 2023.
- [IC.57] Speciale, F., L. E. Malighetti, G. Mandelli, and **G. Zani**, 2023. "Structural optimization as a sustainable design strategy: the case study of Capo D'Orso military complex in Sardinia." in *Proceedings of the Euro-American Congress REHABEND 2024 on Construction Pathology, Rehabilitation Technology and Heritage Management*. Gijon, Spain, 2024.
- [IC.56] Gaspari, F., F. Barbieri, J. P. Duque, R. Fascia, F. Ioli, **G. Zani**, D. Carrion, L. Pinto. 2023. "A geo-database for 3d-aided multi-epoch documentation of bridge inspections." In *Proceedings of GeospatialWeek 2023* (Accepted Paper, in press). Cairo, Egypt, 2023.
- [IC.55] Annibale, A., E. Chiesa, G. Prelli, G. Masera, A. Kindinis, A. Lapertot, D. Allegri, **G. Zani**. 2023. "Technology to build architecture: application of adaptive façade on a new multifunctional arena." In *Proceedings of the 8th International Conference on Smart City Applications*. Paris, France, 2023.
- [IC.54] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2023. "A unidirectional ribbed slab system with prefabricated textile-reinforced concrete shells." In *Proceedings of the 2nd Italian Workshop on Shell and Spatial Structures IWSS 2023*. Torino, Italy, 2023.
- [IC.53] **Zani, G.**, M. di Prisco. 2023. "Identification Of Uniaxial Tensile Laws For UHPFRC Modelling." In *Proceedings of FRC 2023 International Workshop: Fiber Reinforced Concrete: from Design to Structural Applications* (Accepted Paper, in press). Tempe, USA, 2023.
- [IC.52] Colombo, M., **G. Zani**. 2023. "Use of X-ray Analysis for the Assessment of Steel Fiber Orientation in SFRC." In *Proceedings of FRC 2023 International Workshop: Fiber Reinforced Concrete: from Design to Structural Applications*. Tempe, USA, 2023.
- [IC.51] Colombo, M., **G. Zani**, M. di Prisco. 2023. "Validation Of The FRC Uniaxial Tensile Law Proposed By EC2." In *Proceedings of FRC 2023 International Workshop: Fiber Reinforced Concrete: from Design to Structural Applications*. Tempe, USA, 2023.
- [IC.50] Basci, S., M. Colombo, **G. Zani**. 2023. "Mechanical characterization of Ultra High Performance Fiber Reinforced Concrete (UHPFRC) bending behavior." In *Proceedings of FRC 2023 International Workshop: Fiber Reinforced Concrete: from Design to Structural Applications*. Tempe, USA, 2023.
- [IC.49] **Zani, G.**, M. C. Rampini, N. Russo, F. Lollini, M. di Prisco. 2023. "Effect of the environmental exposure on the behaviour of cement-based multi-layered roof elements." In *Proceedings of CACRCS days 2023*. Parma, Italy, 2023.
- [IC.48] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. "Pull-Out Tests on AR-Glass Fabrics Embedded in Plain and Fibre-Reinforced Cementitious Mortars." In *Proceedings of the International Symposium of the International Federation for Structural Concrete, fib Symposium 2023*. Istanbul, Turkey, 2023.
- [IC.47] **Zani, G.**, M. Pepe, M. C. Rampini, J. Michels, E. Martinelli. 2023. "Numerical Modelling of Innovative Deconstructable Shallow Beams Made of Recycled Aggregate Concrete and Shape Memory Steel Reinforcement." In *Proceedings of the International Symposium of the International Federation for Structural Concrete, fib Symposium 2023*. Istanbul, Turkey, 2023..

- [IC.46] Pepe, M., J. Michels, **G. Zani**, M. C. Rampini, E. Martinelli. 2023. “Deconstructable Concrete Structures Made of Recycled Aggregates from Construction & Demolition Waste: The Experience of the DeConStRAtion Project”. In *Proceedings of SynerCrete'23*. Milos Island, Greece, 2023.
- [IC.45] **Zani, G.**, P. Martinelli, G. Cardani, M. di Prisco. 2023. “The role of history in the structural assessment of a multi-span masonry arch bridge.” In *8th International Symposium on Life-Cycle Civil Engineering-IALCCE 2023*. Milan, Italy, July 2-6, 2023.
- [IC.44] di Prisco, M., P. Martinelli, M. Colombo, and **G. Zani**. 2023. “Numerical Approaches Aimed at a Sustainable Design: The Case of Wind Tower Foundations.” In *Numerical Modeling Strategies for Sustainable Concrete Structures (SSCS 2022)* RILEM Bookseries, vol 38. Springer, Cham. Marseille, France, July 4-6, 2022.
- [IC.43] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2022. “FRCM composites for the structural upgrading of Reinforced Concrete shallow beams.” In *Proceedings of the Italian Concrete Days 2022*. Napoli, Italy, 2022.
- [IC.42] Biondini, F., F. Ballio, M. di Prisco, S. Bianchi, M. D’Angelo, **G. Zani**, L. Capacci, M. Anghileri, A. Scalbi, and K. Flores Ferreira. 2022. “Bridge Vulnerability and Hazard Assessment for Risk-Based Infrastructure Management.” In *Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability - Proceedings of the Eleventh International Conference on Bridge Maintenance, Safety and Management (IABMAS 2022)*. Barcelona, Spain, July 11-15, 2022.
- [IC.41] Bianchi, S., **G. Zani**, A. Scalbi, K. Flores Ferreira, M. D’Angelo, M. Anghileri, L. Capacci, F. Biondini, M. di Prisco, F. Ballio, P. Borlenghi, G. Zonno, C. Gentile, L. Benedetti, M. Belloli, A. Colombo, P. Vigo, C. Sportelli, V. Lanza, S. Barassi. 2022. “StradeNet: A Regional Road Information System.” In *Bridge Safety, Maintenance, Management, Life-Cycle, Resilience and Sustainability - Proceedings of the Eleventh International Conference on Bridge Maintenance, Safety and Management (IABMAS 2022)*. Barcelona, Spain, July 11-15, 2022.
- [IC.40] Colombo, M., A. Conforti, M. di Prisco, A. Haus, B. Leporace, G. Plizzari, S. Wolf, F. Sonzogni, and **G. Zani**. 2022. “Experimental investigation on SFRC plates and shallow beams.” In *Proceedings of the 6th fib Symposium*. Oslo, Norway: fib - Fédération internationale du béton.
- [IC.39] di Prisco, M., L. Radice, G. Nava, **G. Zani**, and M. Colombo. 2022. “The first R/SFRC bridge in Italy: materials characterization, preliminary tests, design and construction features.” In *Proceedings of the 6th fib Symposium*. Oslo, Norway: fib - Fédération internationale du béton.
- [IC.38] Flores Ferreira, K., M. C. Rampini, **G. Zani**, M. Colombo, and M. di Prisco. 2022. “Dapped-end beams retrofitted with Fabric-Reinforced Cementitious Mortars: experimental and preliminary analytical study.” In *Proceedings of the 14th fib International PhD Symposium in Civil Engineering*, edited by M. di Prisco, A. Meda, and G. L. Balazs. Roma, Italy: fib - Fédération internationale du béton.
- [IC.37] Basci, S., M. Colombo, and **G. Zani**. 2022. “Mechanical characterization and modelling of Ultra High Performance Fiber Reinforced Concrete.” In *Proceedings of the 14th fib International PhD Symposium in Civil Engineering*, edited by M. di Prisco, A. Meda, and G. L. Balazs. Roma, Italy: fib - Fédération internationale du béton.
- [IC.36] di Prisco, M., **G. Zani**, A. Scalbi, K. Flores Ferreira, and P. Mannella. 2022. “The maintenance plan for existing bridges: a useless piece of paper or a strategic document?.” In *CACRCS DAYS 2021 - Capacity Assessment of Corroded Reinforced Concrete Structures* (Accepted extended abstract, in press). Online workshop, 2021.
- [IC.35] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. “Preliminary estimation of the mechanical response of FRCM-strengthened RC shallow beams.” In *Proceedings of the Second*

*fib Italy YMG Symposium on Concrete and Concrete Structures* (Accepted Paper, in press). Roma, Italy, 2021.

- [IC.34] Flores Ferreira, K., M. Colombo, **G. Zani**, M. C. Rampini, and M. di Prisco. 2021. "Structural performance of reinforced concrete dapped-end beams: a preliminary experimental and numerical investigation." In *Proceedings of the Second fib Italy YMG Symposium on Concrete and Concrete Structures* (Accepted Paper, in press). Roma, Italy, 2021.
- [IC.33] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. "FRCM-retrofitting of Steel Fiber-reinforced Concrete Shallow Beams." In *Proceedings of the 13th International Symposium on Ferrocement and Thin Fiber Reinforced Inorganic Matrices FERRO13*. Lyon, France, 2021.
- [IC.32] di Prisco, M., C. di Prisco, G. Fraraccio, B. Dal Lago, P. Martinelli, L. Flessati, M. Colombo, **G. Zani**. 2021. "Wind tower FRC foundations: research and design." In *Serna P., Llano-Torre A., Martí-Vargas J.R., Navarro-Gregori J. (eds) Fibre Reinforced Concrete: Improvements and Innovations II. BEFIB 2021*. RILEM Bookseries, vol 36. Springer, Cham.
- [IC.31] **Zani, G.**, A. Scalbi, K. Flores Ferreira, C. Somaschini, M. di Prisco. 2021. "Load testing and structural monitoring of a reinforced concrete mid-century bridge." In *Proceedings of the 1st Conference of the European Association on Quality Control of Bridges and Structures. EUROSTRUCT 2021*. Lecture Notes in Civil Engineering, vol 200. Springer, Cham.
- [IC.30] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. "Shear Strengthening of Reinforced Concrete Coupling Beams Using Fabric-Reinforced Cementitious Matrix Composites." In *Proceedings of the Italian Concrete Days 2021* (Accepted Paper, in press). Online conference, 2021.
- [IC.29] **Zani, G.**, C. Comi. 2021. "Structural modelling of FRC in serviceability states: simplified and numerical approaches." In *Proceedings of the Italian Concrete Days 2021* (Accepted Paper, in press). Online conference, 2021.
- [IC.28] di Prisco, M., M. Colombo, **G. Zani**, L. Radice. 2020. "Design approaches concerning SLS and ULS in corroded structural elements." In *CACRCS DAYS 2020 - Capacity Assessment of Corroded Reinforced Concrete Structures* (Accepted Paper, in press). Online workshop, 2020.
- [IC.27] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2021. "Numerical Modeling of FRCM Composites for the Seismic Retrofitting of Existing Concrete Structures." Pp. 69–85 in ACI SP-345 *Materials, Analysis, Structural Design and Applications of Textile Reinforced Concrete/Fabric Reinforced Cementitious Matrix. Proceedings of the ACI Fall 2019 Convention*. Cincinnati, USA: American Concrete Institute.
- [IC.26] **Zani, G.**, M. Colombo, C. Failla, and M. di Prisco. 2020. "Optimization of Partially Prefabricated HyFRC Slabs." Pp. 215–24 in fib Bulletin No. 95, ACI SP-343. *Fibre Reinforced Concrete: From Design to Structural Applications. Proceedings of the ACI-fib-RILEM International Workshop - FRC2018*. Desenzano, Italy.
- [IC.25] di Prisco, M., **G. Zani**, A. Scalbi, and K. Flores Ferreira. 2020. "Existing Bridges in Italy: A Reinforced Concrete Mid-Century Case Study." in *27th Czech Concrete Days*.
- [IC.24] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. "The Role of Concrete Substrate Roughness on Externally Bonded Fabric-Reinforced Cementitious Matrix (FRCM) Layers." Pp. 56–63 in No. 49. *First fib Italy YMG Symposium on Concrete and Concrete Structures*, edited by M. Del Zoppo, I. Colombo, and F. Vecchi. Parma, Italy: fib - Fédération internationale du béton.
- [IC.23] **Zani, G.**, A. Pourzarabi, M. Colombo, and M. di Prisco. 2019. "Fire Resistance of VHPFRC Thin Plates." in *Protect2019 7th International Colloquium on Performance, Protection & Strengthening of Structures Under Extreme Loading & Events*. Whistler, Canada.

- [IC.22] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2019. "Experimental Study on SFRC Beams and Slabs Strengthened with FRCC Composite Materials." in *V Workshop on New Boundaries of Structural Concrete*. Milano, Italy.
- [IC.21] di Prisco, M., M. Colombo, and **G. Zani**. 2019. "Fibre Reinforced Concrete as a Sustainable Choice in Civil Engineering." Pp. 1–6 in *RILEM International conference SSCS2019 - Strategies for Sustainable Concrete Structures*, edited by M. Colombo, M. di Prisco, and L. Ferrara. Lecco, Italy: ISBN: 978-88-99916-34-3.
- [IC.20] Colombo, I. G., M. Colombo, **G. Zani**, and M. di Prisco. 2019. "Sandwich Structures for Sustainable Buildings." Pp. 89–95 in *RILEM International conference SSCS2019 - Strategies for Sustainable Concrete Structures*, edited by M. Colombo, M. di Prisco, and L. Ferrara. Lecco, Italy: ISBN: 978-88-99916-34-3.
- [IC.19] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2018. "Textile Reinforced Concrete Composites for Existing Structures: Performance Optimization via Mechanical Characterization." Pp. 907–14 in *Proceedings of the 12th fib International PhD Symposium in Civil Engineering*, edited by P. Bily, A. Kohoutkova, J. L. Vitek, and M. Frantova. Prague, Czech Republic: Czech Technical University.
- [IC.18] Angelotti, A., S. Leva, **G. Zani**, and M. di Prisco. 2018. "Sustainability-Oriented Innovation of a Multilayered Cement-Based Roof Element." P. Code 142064 in *American Concrete Institute, ACI Special Publication Volume 2018-June, Issue SP 326, 2018*, edited by V. Falikman, L. Coppola, P. Hajek, P. Riva, and R. Realfonzo. Moscow, Russia: American Concrete Institute.
- [IC.17] **Zani, G.**, M. Colombo, and M. di Prisco. 2017. "Size Effect of HPFRCC in Uniaxial Tension." Pp. 183–90 in *UHPFRC 2017 Designing and Building with UHPFRC: New large-scale implementations, recent technical advances, experience and standards - UHPFRC 2017*, edited by F. Toutlemonde and J. Resplendino. RILEM Publications S.A.R.L.
- [IC.16] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2017. "Identification of FRCC Mechanical Parameters for the Retrofitting Design of Existing Structures." Pp. 413–21 in *High Tech Concrete: Where Technology and Engineering Meet - Proceedings of the 2017 fib Symposium*.
- [IC.15] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2016. "Shear Behavior of Multilayered Panels for Roofing Rehabilitation." in *Ultra-High Performance Concrete and High Performance Construction Materials*, edited by E. Fehling, B. Middendorf, and J. Thiemicke. Kassel, Germany.
- [IC.14] **Zani, G.**, M. C. Rampini, M. Colombo, and M. di Prisco. 2016. "Fire Behavior of Sandwich Panels for Roofing Applications." Pp. 775–82 in *Key Engineering Materials*. Vol. 711.
- [IC.13] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2016. "Experimental Characterization of TRC Disposable Formworks." Pp. 1485–94 in *FRC: The Modern Landscape. BEFIB 2016. Proceedings of the 9th RILEM International Symposium on Fibre Reinforced Concrete*, edited by N. Banthia, M. di Prisco, and S. Soleimani-Dashtaki. Vancouver, Canada: ISBN: 978-2-35158-187-2.
- [IC.12] Arlati, E., S. Capolongo, B. Daniotti, M. P. Iarossi, A. Lucchini, I. Paoletti, D. G. Papi, A. Pavan, M. A. Pignataro, T. Poli, F. Re Cecconi, P. Rigone, M. L. A. Trani, A. Zanelli, V. Caffi, B. Copa, A. Guzzetti, G. Lobaccaro, R. Naboni, A. Stefanazzi, and **G. Zani**. 2015. "BIMM-Based Visual Language of Construction." Pp. 159–62 in *The Visual Language of Technique: Volume 1 - History and Epistemology*, edited by L. Cocchiarella. Cham: Springer International Publishing.
- [IC.11] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2015. "HPFRCC Beams in Innovative Elevated Slabs: Experimental Characterization and Modeling." Pp. 489–96 in *Proceedings of the 7th RILEM Workshop on High Performance Fiber Reinforced Cement Composites*. Stuttgart, Germany.
- [IC.10] Bayard, O., M. di Prisco, S. Moro, and **G. Zani**. 2015. "Environmental and Cost Benefit of Very

High Performance Concrete Solution in Industrial Building Design.” Pp. 62–69 in *Proceedings of the International Conference FIBRE CONCRETE*. Vols. 2015-Janua. Prague, Czech Republic.

- [IC.9] di Prisco, M., M. Colombo, **G. Zani**, and M. C. Rampini. 2015. “Existing Industrial Buildings: A Sustainable Solution for Roofing Rehabilitation.” in *SSCS 2015 Numerical Modeling - Strategies for Sustainable Concrete Structures*. Rio de Janeiro, Brazil.
- [IC.8] di Prisco, M., S. Moro, O. Bayard, and **G. Zani**. 2014. “New Industrial Building Designed with Very High Performance Fiber Reinforced Concrete.” Pp. 1–7 in *Concrete Innovation Conference, CIC 2014*. Oslo, Norway.
- [IC.7] Pignataro, M. A., **G. Zani**, and G. Lobaccaro. 2014. “Eco-Sustainable Architectures of Complex Shape: Use of Digital and Physical Models.” Pp. 349–58 in *39th IAHS - Changing Needs, Adoptive Buildings, Smart Cities*. Milan, Italy: ISBN: 9788864930138.
- [IC.6] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “Flexural Behavior of Fiber and Textile Reinforced HPC Thin Plates.” Pp. 846–48 in *Improving Performance of Concrete Structures - fib Congress 2014*. Mumbai, India.
- [IC.5] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “High Performance Cementitious Composites for Sustainable Roofing Panels.” in *Proceedings of the 10th fib International PhD Symposium in Civil Engineering*. Quebec City, Canada.
- [IC.4] di Prisco, M. and **G. Zani**. 2012. “Experimental and Numerical Analysis of Advanced Cementitious Composites for Sustainable Roof Elements.” in *SSCS’2012 - International Conference on Numerical Modeling Strategies for Sustainable Concrete Structures*. Aix en Provence, France.
- [IC.3] Colombo, I., M. Colombo, A. Magri, **G. Zani**, and M. di Prisco. 2012. “Tensile Behavior of Textile: Influence of Multilayer Reinforcement.” *RILEM Bookseries* 2:463–70.
- [IC.2] Colombo, I. G., M. Colombo, A. Magri, **G. Zani**, and M. di Prisco. 2011. “Textile Reinforced Mortar at High Temperatures.” Pp. 202–7 in *Applied Mechanics and Materials*. Vol. 82.
- [IC.1] di Prisco, M., L. Ferrara, M. G. L. Lamperti, S. Lapolla, A. Magri, and **G. Zani**. 2011. “Sustainable Roof Elements: A Proposal Offered by Cementitious Composites Technology.” Pp. 167–81 in *Innovative Materials and Techniques in Concrete Constructions*. Corfu, Greece.

#### NATIONAL CONFERENCE PROCEEDINGS

- [NC.9] di Prisco, M., L. Radice, S. Somaschini, U. Cinti, G. Nava, **G. Zani**, M. Colombo, M. Scola. 2022. “Progetto e realizzazione di un ponte in P/SFRC a Canzo.” In *Proceedings of the Italian Concrete Days 2022*. Napoli, Italy, 2022.
- [NC.8] Rampini, M. C., **G. Zani**, M. Colombo, and M. di Prisco. 2018. “FRCM Ottimizzati per Il Rinforzo Di Strutture Esistenti.” in *Italian Concrete Days 2018 – Il calcestruzzo strutturale oggi*, edited by M. di Prisco and M. Menegotto. Lecco, Italy: GWMAX.
- [NC.7] di Prisco, M., Claudio Failla, **G. Zani**, M. Colombo, and Francesco Sonzogni. 2016. “Un Elemento Di Copertura in HPRCC per Adeguare Edifici Industriali Esistenti.” in *Italian Concrete Days 2016 – Evoluzione e sostenibilità delle strutture in calcestruzzo*, edited by M. di Prisco and M. Menegotto. Rome, Italy: GWMAX.
- [NC.6] Rampini, M. C., **G. Zani**, A. Caverzan, M. Colombo, and M. di Prisco. 2016. “Una Proposta Di Solaio Alleggerito Con Elementi Prefabbricati in Composito Fibrorinfozato.” in *Italian Concrete Days 2016 – Evoluzione e sostenibilità delle strutture in calcestruzzo*, edited by M. di Prisco and M. Menegotto. Rome, Italy: GWMAX.
- [NC.5] **Zani, G.**, M. Colombo, and M. di Prisco. 2014. “Comportamento Flessionale Di Lastre a Matrice

Cementizia Con Rinforzi Ibridi.” Pp. 339–44 in *20° Congresso CTE - Milano*, edited by Segreteria CTE. Milan, Italy.

- [NC.4] Rampini, M. C., **G. Zani**, and M. di Prisco. 2014. “Influenza Delle Masse Di Piano Sulle Connessioni Alla Base Di Strutture Prefabbricate.” Pp. 199–206 in *20° Congresso CTE - Milano*, edited by Segreteria CTE. Milan, Italy.
- [NC.3] Colombo, Isabella Giorgia, M. Colombo, Anna Magri, **G. Zani**, and M. di Prisco. 2012. “Malte Rinforzate Con Reti in Fibra Di Vetro Alcalino-Resistenti: Un’indagine Sperimentale Sui Parametri Di Progetto.” Pp. 385–94 in *19° Congresso CTE - Bologna*, edited by Segreteria CTE. Bologna, Italy: ISBN: 9788890364792.
- [NC.2] di Prisco, M. and **G. Zani**. 2012. “Elementi Di Copertura Sostenibili: Un’indagine Teorico-Sperimentale.” Pp. 161–70 in *19° Congresso CTE - Bologna*, edited by Segreteria CTE. Bologna, Italy.
- [NC.1] di Prisco, M., L. Ferrara, M. G. L. Lamperti, S. Lapolla, A. Magri, and **G. Zani**. 2011. “Soluzioni Sostenibili per Elementi Di Copertura: Un’opportunità Offerta Dai Compositi Cementizi Fibrorinforzati.” Pp. 53–66 in *Progettare e realizzare elementi strutturali in calcestruzzo fibrorinforzato a cinque anni dal Documento CNR DT – 204*. Rome, Italy: ISBN: 9788890429255.

#### RESEARCH POSTERS

- [RP.1] **Zani, G.**, A. Abbozzo, M. Antelmi, M. Belloli, G. Cazzulani, F. Fusco, P. F. Giordano, M. G. Limongelli, L. Longoni, M. Vitali, M. di Prisco. 2024. “Proof of concept of an exceptional transport corridor exposed to multi-risk conditions: definition and preliminary analyses.” In *Dissemination Workshop RETURN*. Torino, Italy, February 1-2, 2024.

## Research impact

### SCOPUS

Documents: 79

Citations: 772

h-index: 13

Co-authors: 143

### GOOGLE SCHOLAR

Documents: 105

Citations: 1066

h-index: 15

i10-index: 24

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## Talks, courses, seminars and conference participation

### INVITED KEYNOTES

- 2026 Gordon Research Conference "Advanced Materials for Sustainable Infrastructure Development", Keynote presentation: "Material-Shape Synergies for Performance-Oriented Concrete Design", Barga, Italy, 19 February 2026

### SCIENTIFIC TALKS

- 2025 2025 *fib* International Symposium on Conceptual Design of Concrete Structures, Rio de Janeiro, Brazil, 14 May 2025. Paper presented: [IC.66]
- 2024 REHABEND 2024: Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Gijon, Spain, 9 May 2024. Paper presented: [IC.57]
- 2023 FRC 2023: Fiber Reinforced Concrete: from Design to Structural Applications, Tempe, USA, 18 September 2023. Paper presented: [IC.53]
- 2023 2<sup>nd</sup> Italian Workshop on Shell and Spatial Structures IWSS 2023, Torino, Italy, 28 June 2023. Paper presented: [IC.54]
- 2023 *fib* Symposium 2023, Istanbul, Turkey, 6 June 2023. Paper presented: [IC.47]
- 2021 Eurostruct 2021 - 1<sup>st</sup> Conference of the European Association on Quality Control of Bridges and Structures, Padova, Italy, 29 August 2021. Paper presented: [IC.31]
- 2021 Italian Concrete Conference 2020, Online event, Italy, 14 April 2021. Paper presented: [IC.29]
- 2019 ACI Fall Convention 2019, Cincinnati, USA, 20 October 2019. Paper presented: [IC.27]
- 2018 FRC2018: Fibre Reinforced Concrete: from Design to Structural Applications, Desenzano, Italy, 27 June 2018. Paper presented: [IC.26]
- 2018 2<sup>nd</sup> International Workshop on Durability and Sustainability of Concrete Structures DSCS2018, Moscow, Russia, 6 June 2018. Paper presented: [IC.18]
- 2016 4<sup>th</sup> International Symposium on Ultra-High Performance Concrete and High Performance Construction Materials HiPerMat 2016, Kassel, Germany, 9-11 March 2016. Paper presented: [IC.15]
- 2014 10<sup>th</sup> *fib* International PhD Symposium in Civil Engineering, Québec, Canada, 21-23 July 2014. Paper presented: [IC.5]
- 2013 39<sup>th</sup> IAHS World Congress on Housing Science, Milano, Italy, 17-20 September 2013. Paper presented: [IC.7]

### COURSES

- 2021 *Speaker* at the short refresher course "Concezione di sistemi di monitoraggio e applicazioni (2<sup>nd</sup> edition)". Milan Board of Engineers. Online course, 28 October 2021
- 2021 *Speaker* at the short refresher course "Concezione di sistemi di monitoraggio e applicazioni (1<sup>st</sup> edition)". Milan Board of Engineers. Online course, 9 June 2021
- 2021 *Speaker* at the short refresher course "Classificazione dei ponti e criteri di intervento". Milan Board of Engineers. Online course, 19 May 2021

## SEMINARS

- 2026 *Invited speaker* at the 3<sup>rd</sup> CONCRETO Steppingstone workshop. Presentation: "A voyage to Japan: concrete structures, hybrid systems and conservation challenges", Online event, 27 February 2026
- 2025 *Invited speaker* at the workshop organized by the Japanese Civil Engineering Research Institute for Cold Region. Presentation "Simplified design approaches for small river crossings in rural areas". Sapporo, Japan, 9 December 2025
- 2025 *Invited speaker* at the seminar "Assessment and Monitoring of Concrete Structures: Guiding Effective Strategies for Intervention and Preservation" organized by the National Council of Italian Engineers. Online seminar, 20 October 2025
- 2025 *Speaker* at the seminar "Monitoring, conservation and recovery of structures and infrastructures" organized by the Department of Civil and Environmental Engineering of the Politecnico di Milano in Milan, Italy, 16 June 2025
- 2024 *Speaker* at the seminar "World Soil Day" organized by the Department of Civil and Environmental Engineering of the Politecnico di Milano in Milan, Italy, 5 December 2024
- 2024 *Invited speaker* at the 1<sup>st</sup> CONCRETO Steppingstone workshop. Presentation: "Bridge Watch: Real-time monitoring for reinforced concrete structures", Online event, 19 April 2024
- 2023 *Speaker* at the multiplier event "Historical Concrete Structures - How to preserve this cultural heritage?" organized by the Budapest University of Technology and Economics in Veszprém, Hungary, 12 September 2023
- 2023 *Invited speaker* at the seminar "The conservation of 20<sup>th</sup> Century architectural heritage: research, education and case studies" organized by the University of Pisa in Pisa, Italy, 6 May 2023
- 2022 *Invited speaker* at the seminar "L'invenzione statica e spaziale di Pier Luigi Nervi" organized by the Lecco Board of Engineers at the Lecco Campus of the Politecnico di Milano, 10 June 2022
- 2021 *Invited speaker* at the seminar "Structural Health Monitoring" organized by Kistler Italia s.r.l. at the Lecco Campus of the Politecnico di Milano, 23 June 2021
- 2021 *Invited speaker* at the seminar "La sfida della sicurezza dei ponti esistenti". Lecco Board of Engineers. Online webinar, 10 May 2021
- 2021 *Speaker* at the seminar "L'approccio PIARC alla gestione della sicurezza stradale: migliori pratiche e casi di studio nella Regione Lombardia - la sicurezza dell'utenza e delle strutture". PIARC - World Road Association - Italian National Committee. Online webinar, 06 May 2021
- 2021 *Main speaker* at the webinar "Existing Reinforced Concrete Bridges: Palaces or Prisons?". *fib* Italy YMG, C.A. - Concrete Affairs series. Online webinar, 22 April 2021

## CONFERENCE PARTICIPATION

- 2026 7th *fib* Congress, Lisbon, Portugal, 15-19 June 2026
- 2026 Gordon Research Conference "Advanced Materials for Sustainable Infrastructure Development", Barga, Italy, 15-20 February 2026
- 2025 CACRCS 2025 - Capacity Assessment of Corroded Reinforced Concrete Structures: from Research to Daily Engineering Evaluation, Lecco, Italy, 30 June-3 July 2025
- 2025 2025 *fib* International Symposium on Conceptual Design of Concrete Structures, Rio de Janeiro, Brazil, 14-16 May 2025
- 2024 IASS Annual Symposium 2024 - Redefining the Art of Structural Design, Zurich, Switzerland,

- 25-30 August 2024
- 2024 REHABEND 2024: Euro-American Congress on Construction Pathology, Rehabilitation Technology and Heritage Management, Gijon, Spain, 7-9 May 2024
- 2023 3<sup>rd</sup> *fib* Italy YMG Symposium on Concrete and Concrete Structures, Torino, Italy, 9-10 November 2023
- 2023 ReLUIS conference "La sperimentazione delle Linee Guida per i ponti esistenti", Roma, Italy, 24-25 October 2023
- 2023 FRC 2023: Fiber Reinforced Concrete: from Design to Structural Applications, Tempe, USA, 18-20 September 2023
- 2023 2<sup>nd</sup> Italian Workshop on Shell and Spatial Structures IWSS 2023, Torino, Italy, 26-28 June 2023
- 2023 *fib* Symposium 2023, Istanbul, Turkey, 5-7 June 2023
- 2022 Italian Concrete Conference 2022, Napoli, Italy, 12-15 October 2022
- 2022 14<sup>th</sup> *fib* PhD Symposium in Civil Engineering, Roma, Italy, 5-7 September 2022
- 2021 2<sup>nd</sup> *fib* Italy YMG Symposium on Concrete and Concrete Structures, Roma, Italy, 18-19 November 2021
- 2021 Eurostruct 2021 - 1st Conference of the European Association on Quality Control of Bridges and Structures, Padova, Italy, 29 August- 1 September 2021
- 2021 Italian Concrete Conference 2020, Online conference, 14-16 April 2021
- 2019 ACI Fall Convention 2019, Cincinnati, USA, 17-20 October 2019
- 2019 1<sup>st</sup> *fib* Italy YMG Symposium on Concrete and Concrete Structures, Parma, Italy, 15 October 2019
- 2019 International *fib* Symposium on Conceptual Design Of Structures, Madrid, Spain, 26 September 2019
- 2019 Strategies for Sustainable Concrete Structures SSCS 2019, Lecco, Italy, 5-7 September 2019
- 2018 FRC2018: Fibre Reinforced Concrete: from Design to Structural Applications, Desenzano, Italy, 27 June 2018
- 2018 Italian Concrete Days 2018, Milano and Lecco, Italy, 13-16 June 2018
- 2018 2<sup>nd</sup> International Workshop on Durability and Sustainability of Concrete Structures DSCS2018, Moscow, Russia, 6-7 June 2018
- 2016 Italian Concrete Days 2016, Roma, Italy, 27-28 October 2016
- 2016 4<sup>th</sup> International Symposium on Ultra-High Performance Concrete and High Performance Construction Materials HiPerMat 2016, Kassel, Germany, 9-11 March 2016
- 2015 7<sup>th</sup> RILEM Conference on High Performance Fiber Reinforced Cement Composites, Stuttgart, Germany, 1-3 June 2015
- 2015 Resistenza a taglio di elementi in C.A., C.A.P. e F.R.C., Milano, Italy, 17 June 2015
- 2014 20<sup>th</sup> CTE conference, Milano, Italy, 6-8 November 2014
- 2014 10<sup>th</sup> *fib* International PhD Symposium in Civil Engineering, Québec, Canada, 21-23 July 2014
- 2013 39<sup>th</sup> IAHS World Congress on Housing Science, Milano, Italy, 17-20 September 2013
- 2011 7<sup>th</sup> Central European Congress on Concrete Engineering, Balatonfüred, Hungary, 22-23 September 2011
- 2011 3<sup>rd</sup> International Workshop on the Performance, Protection and Strengthening of Structures under Extreme Loading, Lugano, Switzerland, 30 August-1 September 2011

- 2011 Structural Engineers World Congress, Cernobbio, Italy, 4-6 April 2011
- 2011 Progettare e realizzare elementi strutturali in calcestruzzo fibrorinforzato” a cinque anni dal Documento CNR DT – 204, Roma, Italy, 4 February 2011
- 2010 *fib* workshop on Shear and punching shear in RC and FRC elements, Salò, Italy, 15-16 October 2010
- 2010 International Conference on Material Science and 64th RILEM Annual Week, Aachen, Germany, 6-10 September 2010

## Organization of national and international conferences

- 2026 *Member of the Scientific Committee* of the 2027 *fib* INTERNATIONAL SYMPOSIUM ON CONCEPTUAL DESIGN OF CONCRETE STRUCTURES to be held in Lecco (Italy) - 6-8 September 2027
- 2025 *Member of the Scientific Committee* of the 16TH *fib* PHD SYMPOSIUM to be held in Vienna (Austria) - 9-11 September 2026
- 2025 *Member of the Scientific Committee* of the FOURTH *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES held in Naples (Italy) - 15-16 September 2025
- 2024 *Member of the Organizing Committee* of the CACRCS DAYS 2025 - CAPACITY ASSESSMENT OF CORRODED REINFORCED CONCRETE STRUCTURES conference to be held in Lecco (Italy) - July 2025
- 2023 *Member of the Scientific Committee* of the 15TH *fib* PHD SYMPOSIUM held in Budapest (Hungary) - 28-30 August 2024
- 2023 *Co-chair* of the session "Cementitious composites" of the THIRD *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES held in Turin (Italy) - 9-10 November 2023
- 2023 *Member of the Scientific Committee* of the THIRD *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES held in Turin (Italy) - 9-10 November 2023
- 2023 *Chair* of the session "Fiber Distribution and Orientation" of the FRC 2023: FIBER REINFORCED CONCRETE: FROM DESIGN TO STRUCTURAL APPLICATIONS workshop held in Tempe (USA) - 18-20 September 2023
- 2023 *Member of the Scientific Committee* of the FRC 2023: FIBER REINFORCED CONCRETE: FROM DESIGN TO STRUCTURAL APPLICATIONS workshop held in Tempe (USA) - 18-20 September 2023
- 2022 *Co-chair* of the sessions "Bridges, dams and tunnels" and "Retrofitting and assessment of existing structures" of the 14TH *fib* PHD SYMPOSIUM held in Rome (Italy) - 5-7 September 2022
- 2021 *Member of the Organizing Committee* of the 14TH *fib* PHD SYMPOSIUM held in Rome (Italy) - September 2022
- 2021 *Co-chair* of the session "Durability and Corrosion" of the SECOND *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES held in Rome (Italy) - 18-19 November 2021
- 2021 *Member of the Scientific Committee* of the SECOND *fib* ITALY YMG SYMPOSIUM ON CONCRETE AND CONCRETE STRUCTURES held in Rome (Italy) - 18-19 November 2021
- 2018 *Member of the Organizing Committee* of the ITALIAN CONCRETE DAYS 2018 national conference held in Milan and Lecco (Italy) - June 2018
- 2016 *Contributor* to the organization of the ITALIAN CONCRETE DAYS 2016 national conference held in Rome (Italy) - October 2016

- 2016 *Contributor* to the organization of the 8TH INTERNATIONAL CONFERENCE ON CONCRETE UNDER SEVERE CONDITIONS-ENVIRONMENT & LOADING - CONSEC2016 held at Politecnico di Milano - Polo Territoriale di Lecco - September 2016
- 2014 *Contributor* to the organization of the XX CONGRESSO CTE national conference held in Milan (Italy) - November 2014
- 2011 *Contributor* to the organization of the THIRD INTERNATIONAL WORKSHOP ON THE PERFORMANCE, PROTECTION AND STRENGTHENING OF STRUCTURES UNDER EXTREME LOADING - PROTECT2011 held in Lugano (Switzerland) - August 2011

## Commission of trust

- 2024 *Member of the Editorial Board* of the Springer Nature scientific journal Discover Civil Engineering
- 2023 *Review Editor* of the scientific journal Frontiers in Built Environment - Bridge Engineering
- 2021 *Academic Editor* of the scientific journal Advances in Civil Engineering
- 2021 *Topic Editor* of the scientific journal Applied Sciences (Civil Engineering section)
- 2012-on *Peer reviewer* for the following scientific journals (17): Cement and Concrete Composites, Materials and Structures, Engineering Structures, Automation in Construction, KSCE Journal of Civil Engineering, Advances in Civil Engineering, Applied Sciences, Materials, Sustainability, Buildings, Fibers, Energies, Infrastructures, European Journal of Environmental and Civil Engineering, Journal of Materials in Civil Engineering, Journal of Bridge Engineering, Scientific Reports

## Memberships and participation to international committees

- 2023-on *Member* of the *fib* Technical Committee *Fibre Reinforced Concrete* COM4-TG4.1
- 2023-on *Member* of the *fib* Special Activity Group: Sustainability - TG.SAG.2: Sustainable Concrete Structures
- 2023-2024 *Member* of the *fib* (International Federation for Structural Concrete) association (ID12483)
- 2022-on *Member* of the Working Group *Linee guida (LG) per la prioritizzazione degli interventi sui ponti* of the IABSE Italian group (coordinator prof. M. P. Limongelli) - Research lines: 1) load models and exceptional loads, 2) residual life assessment, and 3) bridge monitoring
- 2022-on *Member* of the technical committee "292-MCC: Mechanical Characterization and Structural design of Textile Reinforced Concrete"
- 2022-on *Member* of the Rilem (International Union of Laboratories and Experts in Construction Materials, Systems and Structures) association (ID41804)

## Prizes

- 2025 *Winner of a staff mobility grant* covering the stay as visiting researcher at the University of Tokyo, awarded under the Politecnico di Milano call TNE23-00019 "Italy-East Asia Cooperation: from Local Expertise to a Global Outlook" (LEGO)
- 2025 *Winner of the Young Researcher Award* of the Department of Civil and Environmental Engineering of the Politecnico di Milano for the contribution *Structural assessment and monitoring-based modelling of a mid-20th-century RC bridge under anthropogenic loads* presented at the CS+ Seminar "Monitoring, Conservation and Recovery of Structures and Infrastructures", June 16, 2025

- 2025 *Co-author* with K. Flores Ferreira, M. C. Rampini (speaker in the symposium), and M. di Prisco of the article "Analytical investigation on the structural impact of chloride-induced corrosion in reinforced concrete dapped-end beams," awarded with the Best Paper on Corroded Reinforced Concrete Structures at the fib CACRCS Days 2025 held in Lecco, Italy
- 2022 *Co-Supervisor* of Dr. Marco Carlo Rampini PhD thesis "Glass Fabric-Reinforced Cementitious Matrix (GFRCM) composites: strengthening and retrofitting of reinforced concrete structures" (Supervisor Prof. Marco di Prisco), awarded the first prize 'ing. Brunello Sarno 2022"
- 2018 *Co-author* with M. C. Rampini (lead author and speaker in the symposium), M. Colombo and M. di Prisco of the article "Reinforced concrete textile composites for existing structures: Performance optimization through mechanical characterization," awarded with special mention at the XII fib International PhD International PhD Symposium in Civil Engineering
- 2011 *Member* of the working group (responsible for structural aspects) awarded with a special mention at the 3rd edition of the design competition "InstantHouse Social Club", realised for MADE expo by FederlegnoArredo

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