

CURRICULUM VITAE

1. Personal Information

Name: Riccardo Gulli

Position: Full Professor

Institution: Department of Architecture, Alma Mater Studiorum - Università di Bologna

Scientific-disciplinary sector: CEAR-08/A Architectural Engineering

Researcher unique identifier: ORCID 0000-0001-5720-2912

URL for website: <https://www.unibo.it/sitoweb/riccardo.gulli>

Scopus metrics: 529 citations; H-index 12

Total number of papers: 196

Journal papers: 46

Book chapters: 75

Books: 16

Proceedings: 59

2. Current and previous positions

- 2010-today: Full Professor in Architectural Engineering at the Department of Architecture, Alma Mater Studiorum - University of Bologna.
- 1998-2010: Associate Professor at the Faculty of Engineering, University of Udine (1998-2003) and then at the Department of Architecture, Alma Mater Studiorum - University of Bologna.
- 2005- 2015: Dean of the LabTeco Study Center (Laboratory of design and technological experimentation on buildings) of the University of Bologna;
- 2008-2010: Dean of the NEREA industrial research laboratory (Network for the Advanced Restoration of the High Technology Network of Emilia Romagna);
- 2011-2016: Head of the "Recovery and Restoration" Operating Unit of CIRI-EDILIZIA (Interdepartmental Center for Industrial Research) of the University of Bologna;
- 2011-15: Head of Bologna Unit of the Department of Architecture;
- 2014-2017: Head of the Alma Mater Building Engineering-Architecture degree course;
- 2015-2021: Deputy Rector for Building and Environmental Sustainability of Bologna University;
- 2017-2022: Head of the Ar.Tec (Scientific Italian Society of Technical Architecture);
- 2015- in office: Director of the international journal TEMA, Technology, Engineering, Materials and Architecture, (class A ANVUR - AREA 08);
- 2025- in office: Vice Presidente of CIDIC (Italian Center Digital Innovation in Construction)
- 2014- in office: Director of the Constructive Cultures series for sustainable recovery for EDICOM Edizioni types.

Profile focus: His scientific production includes more than 190 national and international studies, including monographs and peer-reviewed contributions. This trajectory provides a strong and coherent background in the field of analysis, interpretation and transformation of Italian residential building stocks, combining consolidated expertise in construction systems,

performance-based assessment, sustainable renovation and, more recently, digital decision-support approaches.

3. Visiting academic positions

- Visit professor at the: University of Tokio (11.2018- 09.2024); University of California San Diego (11.2019); Sidney University (03.2024); Massey University New Zealand (04. 2024) University of Da Nang, Vietnam (04, 2025); University of Chania, Crete (06, 2025); Jiangnan University, China (04.2026);

4. Teaching activities and PhD supervision

- 2012-Today: Member of the Academic Board of the PhD programme in “Architecture and Design Cultures” at the University of Bologna.
- 1998-Today: Long-standing teaching activity in the field of Architectural Engineering, with reference to building construction, renovation and conservation of the built heritage, construction culture, and sustainable renovation.
- 2003-2005: University of Bologna: Elements of Architectural Engineering; Architectural Engineering; Architectural Engineering III; Rehabilitation and Conservation of Buildings.
- 1998-2003: University of Udine: Building Construction; Projects for building renovation and refurbishment; Rehabilitation, Conservation and Renovation of Buildings.
- 1998-2000: University of Udine: Post-graduate specialization course in Green Buildings, with a module on traditional construction techniques rehabilitation of the built heritage.
- 1995-1998: University of Perugia: Architectural Engineering.
- 1988-1995: University of Ancona: Building Projects; Construction and distribution characters of buildings; Architecture and Architectural Composition.

5. National and international collaborations and networks

Prof. Gulli’s scientific network is grounded in long-standing national and international collaborations on the analysis, conservation and performance improvement of existing buildings and built heritage. Between 2005 and 2015, he developed international collaborations in construction history and experimental building techniques, including activities with Les Grands Ateliers de l’Île d’Abeau (Villefontaine, Lyon, France) and the École Nationale Supérieure d’Architecture Paris-Malaquais (ENSAPM), Université Paris-Est. His participation in European research networks and projects - e.g. “Pro-GET-onE”, “DRIVE 0”, “ADRISEISMIC” and “Herit4Ages” - further documents his experience in renovation, energy efficiency, circular renovation, seismic vulnerability and heritage resilience. He has also worked with regional innovation structures, public administrations and industrial partners, including Regione Emilia-Romagna, the Municipality of Pesaro and the general construction contractor ACMAR Ravenna. These collaborations support the feasibility of the proposal by combining historical-construction knowledge, diagnostic and experimental methods, seismic and environmental assessment, and operational tools for the transformation of existing building stock. In this context, the following ongoing relationships are of specific relevance to the project:

- Unit of research for Italian University 2030 – Digital Management of building heritage – CINECA (2023-24)

- CIDIC (Italian Center Digital Innovation in Construction) / DEMANIO / CNEL. Presentation event 15.04.2026 (<https://www.cnel.it/Comunicazione-e-Stampa/Eventi/PID/703/mcat/736/ev/2/ArtDate/15-4-2026>)
- Welsh School of Architecture, Cardiff University (UK), topic research “Lightweight Topological Building Information Models for Built Heritage Management”. Head of unit research, Prof. Wassim Jabi.
- Massey University New Zealand, Digital Built Environment Lab., Head of unit research, Prof. Ruggiero Lovreglio.
- Scientific agreement with Bologna Municipality for residential building heritage digital data set (1920-1975).

6. Other work experience, including consultancy and applied research

- Scientific Responsible for diagnostic and instrumental investigations on the Church of San Giovanni Battista in Pesaro, in collaboration with the Universities of Udine, Ancona and Urbino.
- Scientific Responsible for applied research on the conservation, use conditions and seismic safety of public-school buildings owned by the Municipality of Pesaro.
- Scientific Responsible for the LabTeco-Municipality of Pesaro agreement on the static-construction characterisation and seismic improvement of the Dante Alighieri middle school.
- Scientific Responsible for LabTeco-ACMAR Ravenna research agreement on materials and construction techniques for the maintenance and rehabilitation of historical buildings in seismic contexts, with specific attention to eco-compatibility and energy saving.
- Director of NEREA, the industrial research laboratory within the Emilia-Romagna High Technology Network, focused on advanced restoration, applied research and technology transfer.
- Coordinator of full-scale construction experiments on “tabicada” vaults and lightweight dry-assembled vaulted systems carried out in university laboratories in Ancona, at the Laboratory of Mediterranean Technologies in Pirri/Cagliari, and through LabTeco-ACMAR and Les Grands Ateliers de l’Île d’Abeau collaborations.
- Coordinator of experimental activities involving structural behaviour testing, repair and restoration trials, and the development of prefabricated dry-assembled systems for building rehabilitation.
- Applied research orientation: development of operational tools for designers, public administrations and stakeholders dealing with existing buildings, conservation, seismic improvement, performance upgrading and sustainable refurbishment.

7. Editorial activity

- 2015-Today: Director of “TEMA Technology Engineering Materials Architecture” (ISSN: 2421-4574), the official open-access scientific journal of Ar.Tec., the Italian Society of Architectural Engineering. TEMA is rated by ANVUR “Class A” Journal for the Area 08 – Architecture.
- 2014-Today: Director of the book series “Culture costruttive per il recupero sostenibile”, Edicom Edizioni.

- 2014-Today: Member of the Scientific Committee of the journal “Il Progetto Sostenibile”.
- Author and editor of monographs and peer-reviewed volumes on construction history, historical building techniques, recovery and conservation.
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8. Membership of scientific societies

- 2017-2022: President Ar.Tec - Italian Scientific Society of Architectural Engineering.
- 2025-Today: Vice president of CIDIC - Italian Centre for Digital Innovation in Construction

7. Funding - current and past

- **2023-2027** - “Herit4Ages”, Funding organisation: Horizon Europe; Role: Scientific director for UNIBO – Partner; PM: 4,5 (644H); budget/funding: UNIBO - DA budget €326,875. RU
- **2023-2025** PRIN 2022, DIGITMAN- Occupant-based DIGITal predictive MANagement to improve the built environment, POLITECNICA DELLE MARCHE, POLITECNICO DI MILANO, UNIVERSITA’ DI BOLOGNA. Coordinatore di Unità locale, BUDGET TOTALE: 245.000 €; BUGDET UNIBO: 71.000 €. RU
- **2020-2022** - “ADRISEISMIC” | Funding organisation: INTERREG V-B Adriatic-Ionian ADRION Programme 2014-2020; Role: Scientific director for UNIBO – Partner; PM: 0,5; budget/funding: UNIBO - DA budget €239,000. UC.
- **2019-2023** - DRIVE 0 | Funding organisation: Horizon 2020, GA 841850; Role: Scientific director for UNIBO – Partner; PM: 0,5; budget/funding: UNIBO - DA budget €114,000. CU.
- **2017-2021** - “Pro-GET-onE” | Funding organisation: Horizon 2020, GA 723747; Role: Scientific director for UNIBO – Coordinator; PM: 0,5; budget/funding: DA budget €536,912.50. CU.
- **2012** - Valorisation of the Emilia-Romagna restoration industry in China | Funding organisation: MAE / Regione Emilia-Romagna; Role: Responsible / participant - role to be verified; budget/funding: €36,000. RU.
- **2011-2013** - ACTEE - Actions and Communication Tools about Energy Efficiency | Funding organisation: INTERREG IVC - ENERCITEE / Regione Emilia-Romagna; Role: University of Bologna Responsible; budget/funding: €46,500. RU.
- **2008** - Static-construction characterisation and technical solutions for the recovery and seismic improvement of Dante Alighieri middle school, Pesaro | Funding organisation: LabTeco / Municipality of Pesaro; Role: Scientific Responsible; budget/funding: €54,000. RU.
- **2007** - NEREA - Network for Advanced Restoration, Emilia-Romagna High Technology Network | Funding organisation: PRIITT Regione Emilia-Romagna; Role: Scientific Responsible; PM: 1; budget/funding: €267,600.
- **2005-2008** - “Sperimentazione di materiali e tecniche costruttive” for historical building recovery, seismic contexts, eco-compatibility and energy saving | Funding organisation: LabTeco / ACMAR Ravenna; Role: Scientific Responsible; budget/funding: €60,000. RU.
- **2004-2005** - “Recupero, manutenzione e sicurezza del patrimonio edilizio pubblico in ambito sismico” | Funding organisation: University of Bologna / Municipality of Pesaro; Role: Scientific Responsible; budget/funding: €12,000.
- **2004-2006** - PRIN - “Edilizia di Base e architettura regionale. Fattori di rendimento e linee guida per gli interventi di tutela e valorizzazione ambientale nel contesto emiliano-romagnolo” | Funding organisation: PRIN / MUR; Role: Research group member, University of Bologna Unit; PM: 0,5. UC.

- **2003** - Diagnostic and instrumental investigations on the façade and masonry of the Church of San Giovanni Battista in Pesaro | Funding organisation: Municipality of Pesaro / Universities of Udine, Ancona and Urbino; Role: Scientific Responsible; budget/funding: €13,000. RU.
- **1998** - MURST ex 40% - “Le tradizioni del costruire nell’area mediterranea. Tecniche, modelli, saperi. Un Codice di pratica per la manutenzione e il recupero del centro storico di Serra San Quirico” | Funding organisation: MURST; Role: Research group member; PM: 0,5. UC.

8. Selected publications

- Massafra, A., Mattioli, L., Kozlova, I., Mazzoli, C., Predari, G., Gulli, R. (2025). “HBIM-Based Multi-criteria Method for Internal Insulation Assessment in Heritage Buildings.” In: HERITAGE Journal, Vol. 8, 7, 259 p. 1-29, ISSN: 2571-9408, doi: <https://dx.doi.org/10.3390/heritage8070259>
- Massafra, A., Jabi, W., Gulli, R. (2024). “Topological BIM for building performance management.” Automation in Construction, 166, 105628.
- Benedetti, A.C., Costantino, C., Lobosco, R., Predari, G., Gulli, R. (2025). “Comparative LCA Scenarios for Urban Regeneration of Residential Building Stock. Application to an Existing High-density Urban Block in Bologna.” Energy and Buildings, 329, 115270.
- Massafra, A., Coraglia, U.M., Predari, G., Gulli, R. (2024). “Building Information Model Analysis Through Large Language Models and Knowledge Graphs.” In Data-Driven Intelligence - eCAADe 2024 Proceedings.
- Massafra, A., Coraglia, U.M., Predari, G., Gulli, R. (2024). “Graph-Based Digital Decision Support Systems: Introducing BTwin, a Toolkit for Building Performance Management.” Proceedings of the 2024 European Conference on Computing in Construction.
- Massafra, A., Coraglia, U.M., Predari, G., Gulli, R. (2025). “Digital Decision Support System Prototyping for Building Performance Analysis and Management.” Lecture Notes in Civil Engineering, Springer.
- Gulli, R. (2024). Del costruire. Epistemologia dell’architettura. Quodlibet.
- Gulli, R. (2023). “Progettare per insule. Un modello per la rigenerazione urbana / Designing for insulae. A model for urban regeneration.” In Architecture at the Beginning of Third Millennium. Theory, Design, Construction.
- Gulli, R. (2021). Recupero e conservazione degli edifici. Tutela e prevenzione in ambito sismico. Edicom.
- Gulli, R. (2015). Figure. Ars e Ratio nel progetto di architettura. Firenze University Press.
- Gulli, R. (2007; 2nd ed. 2012). Struttura e Costruzione / Structure and Construction. Firenze University Press.