BEATRICE TURILLAZZI

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SCIENTIFIC PROFILE

Beatrice Turillazzi (1971) is an Associate Professor in Technological and Environmental Design of Architecture (Scientific-Disciplinary Sector CEAR-08/C) at the Department of Architecture of the University of Bologna.
Her academic background includes a degree in Architecture from the University of Florence and a PhD in "Redevelopment and Recovery of Settlements" obtained at the University of Rome "La Sapienza".
She has pursued an academic and professional career focused on research and design in the fields of technological innovation, building sustainability, and digitalization applied to the built heritage.
Her research activities focus on topics such as accessibility and maintenance in architecture, innovative technologies and energy performance in healthcare and residential buildings, BIM modeling of buildings, digitalization of the built environment, and cultural heritage.
She is a member of:

- **TRACE** Research Group (Technology and Resilience in Architecture, Construction and Environment) at the Department of Architecture of the University of Bologna.
- **OFF_Line Laboratory**, an Architecture Technology research group focused on innovation and energy efficiency at the same department.
- **SITdA** - Italian Society of Architectural Technology, affiliated with the clusters on Reuse, Redevelopment, Maintenance, and Architectural Heritage. She serves as delegate for "Regulations and Procedures" with specific responsibility for Statutes and Implementing Regulations.
- Council of Industrial Research Centers at the University of Bologna for Information and Communication Technologies (**CIRI ICT**) and Building and Construction (**CIRI EC**).
- **SS3 - 4CH** Table of the Clust-ER BUILD of the Emilia-Romagna Region.
- Scientific Units "Humanistic AI" and "AI for Industry" at the **Alma AI Center** of the University of Bologna.
- **SEED** Interuniversity Research Center (Sustainability, Environmental Economics and Dynamics Studies).
- International Working Group of Experts for the **Green City Network**.
- Scientific Committee of the "**Architettura Tecnica**" book series.
- Faculty member of the **1st level Master** in Environmental Technologies for Physical Agents, Acoustics, and Lighting at the University of Bologna.
- Academic Board Member of the 41st cycle of **IDAUP - International Doctorate in Architecture & Urban Planning**, a consortium between the University of Ferrara (Department of Architecture, Home Institution) and Polis University, Tirana (ALB).

She has participated in numerous national and international projects, including those funded by the European Union's Framework Programmes.
She is the author of nationally and internationally relevant articles. Since 2007, she has presented in conferences and symposia in various contexts related to the themes of her research activities.
In parallel, she has gained significant professional experience at **Ipostudio Architetti srl,** where she was a collaborator from 2000 (until 2018), Technical Director from 2010 (until 2018), and Partner since 2014.

ACADEMIC ROLE

Department of Architecture, University of Bologna
Associate Professor since October 10, 2021
Senior Researcher (fixed-term type B) from October 10, 2018, to October 9, 2021

RESEARCH CAREER

Since 2001, Prof. Turillazzi has been involved in multidisciplinary research projects addressing the environmental, social, and digital challenges of contemporary architecture. She has collaborated on over 20 national and international research programs, many of them funded by the European Union under FP7, Horizon 2020 and Horizon Europe.
Her main areas of research include:

- Digital tools for the documentation and conservation of cultural heritage
- Sustainable and energy-efficient renovation of existing buildings
- Accessibility and quality in healthcare and educational buildings
- Participatory planning and co-design in urban regeneration
- Energy citizenship, climate neutrality, and digital twins for cities

Recent research projects include:

- 4CH – Competence Centre for Cultural Heritage Conservation (H2020)
- INCEPTION – Inclusive Cultural Heritage in Europe through 3D semantic modelling (H2020)
- ROCK – Regeneration and Optimisation of Cultural Heritage in Creative and Knowledge Cities (H2020)
- SAFE CITIES, LET's Gov, WeGenerate, REDESIGN (Horizon Europe)

She is currently actively engaged in research groups and centers including Alma Mater Research Institute for Human-Centered Artificial Intelligence (Alma AI), the Green City Network, and interdisciplinary initiatives focused on smart, inclusive, and sustainable built environments.

TEACHING ROLE

At the University of Bologna, Prof. Turillazzi teaches in the Master's Degree Programs in Architecture and Creative Practices and Landscape and in Advanced Design, covering courses in:

- Environmental design for future cities;
- Research on historic building;
- Design for sustainability;
- Integrated technologies.

She also contributes to postgraduate and PhD-level education, supervising research on topics such as:

- Energy and social sustainability in historical contexts
- Collaborative urban ecosystems and participatory planning
- Digital and semantic tools for cultural heritage

She promotes cross-disciplinary teaching methods combining service design, technological innovation, and environmental performance.

PROFESSIONAL EXPERIENCE

As partner and technical director at Ipostudio Architetti in Florence, Prof. Turillazzi has over 20 years of experience in architectural design and project management. Her design work includes:

- Healthcare and hospital architecture
- Educational and social housing facilities
- Adaptive reuse and restoration of historic buildings
- Sustainable and accessible public spaces

Her design philosophy integrates user-centered approaches, building physics, and environmental technology with a focus on resilience, inclusion, and heritage values

SELECTED PUBLICATIONS AND RESEARCH OUTPUTS (RECENT YEARS)

- Boeri A., Longo D., Massari M., Sabatini F., Turillazzi B. (2024). The Role of Historical City Centers in the Climate-Neutral Transition of Cities: The Digital Twin as a Tool for Dynamic and Participatory Planning. Springer Nature.
- Turillazzi B. et al. (2023). Public resources and communities: the role of the university in ecological transition. TECHNE, vol. 28, pp. 152–158. doi: 10.36253/techne-15866
- Medici M., Di Giulio R., Turillazzi B. (2023). ICT and Semantic BIM Technologies for the Advanced Documentation and Condition Assessment of Cultural Heritage Sites. Springer.
- Piaia E., Turillazzi B., Di Giulio R. (2024). Advancing the Decarbonization of the Construction Sector: Lifecycle Quality and Performance Assurance of NZEBs. SUSTAINABILITY, 16(9), 1–19. doi:10.3390/su16093687
- Boeri A., Turillazzi B. et al. (2024). Decarbonization Roadmaps and Community Transition Pathways: empowering Energy Citizenship in the EU. IOP Conference Series.
- Roversi R., Longo D., Orlandi S., Turillazzi B. (2022). Il Progetto 4CH per un Centro di Competenza per la Conservazione del Patrimonio Culturale. RESTAURO ARCHEOLOGICO, vol. 30, pp. 274–281.