

Silvia Mastrolemba Ventura, *research fellow*

Architectural Engineer | PhD in Digital Design and Construction Management

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Short bio

Dr Silvia Mastrolemba Ventura is a Research Fellow at the Department of Civil, Environmental, Architectural Engineering and Mathematics (DICATAM) of the University of Brescia, Italy. Her research falls at the intersection of design and construction management with a focus on project coordination and management procedures enabled by digital innovation (e.g., building information modelling, virtual reality, internet of things). Dr Mastrolemba Ventura has recently earned her Research Doctorate (2019) at the Department of Architecture, Built Environment and Construction Engineering (ABC-PhD programme) of the Politecnico di Milano, developing a novel framework for implementing VR systems in digitally-enabled usability-focused design reviews with clients and end-users. Her research was awarded a PhD scholarship by the Construction Technologies Institute of the Italian National Research Council (ITC-CNR). During doctoral studies, she was a visiting PhD scholar at the Constructability Research Institute of the ESTP Paris (France) and she collaborated in a MIUR-DAAD funded project with the Ruhr-Universität Bochum (Germany). She also attended the “Digital design & construction” (2017) and “Virtual Prototyping” (2016) summer schools respectively at Aalto University (Finland) and Politecnico di Milano to complete additional study on digital innovation and lean processes. Before starting the doctoral programme, Dr Mastrolemba Ventura worked as graduate research assistant at the University of Brescia (2013-2015), where she was involved in the Italian research project of national interest “BHIMM - Built Heritage Information Modelling/Management”. She holds a Master of Science (2013) in a five-year single-cycle course in Architectural Engineering from the same institution. During the undergraduate studies, she spent a year at the University of Strathclyde (UK), where she began to investigate the topics that would later characterise her research.

Dr Mastrolemba Ventura has published more than 20 peer-reviewed papers, being awarded two best paper awards at national and international level. As postdoctoral research fellow, she is currently involved in the research project “Information management systems for the digital construction site” and the Italy-funded project “A distributed digital collaboration framework for small and medium-sized engineering and construction enterprises”. Moreover, at present, she is the Italian language editor of the “BIM Dictionary” project (BIMe Initiative), member of the scientific committee of the Italian BIM Association (AssoBIM) and secretary of the “Public Works” technical committee of the engineering association of the province of Brescia (Italy).