

**Dr. Elena Cantatore** is an RTD-a researcher at the Polytechnic University of Bari (Italy). She has graduated as a building engineer-architecture. She discussed her PhD thesis in 2018 entitled “Energy resilience to climate change of historic urban districts in Mediterranean Area”, (SSD ICAR/10) and today she has the course “Technical Architecture” in the first cycle degree programme in Civil Engineering in the same Polytechnic.

Still the first scientific activities, her scientific work deals with the recovery and maintenance strategies of cultural heritage and historic built environment, focusing on the effects generated by natural processes and climate change. She focused on the associated risk and consequent strategies of recovery, according to the main goals of resilient cities. In recent activities, she has reached specific research goals in using Virtual Reality-based and territorial parametric models (CityGML-based) for the recovery of architectural Cultural Heritage, as well as for their management coherently with the setting up of “digital recovery plans”.

Due to the recent collaboration in national projects, her scientific works deal with the resilience of open-built environment exposed to terrorist attacks as a human-made threat to be combined with natural hazards for the assessment of the vulnerability of places and the identification of suitable and compatible mitigative solutions.

She is the PI of two research projects and author of more than 40 publications, with national and international relevance, 23 Scopus ranked, and author of 1 book.

She is also Topical Advisory Panel Member of Sustainability (ISSN 2071-1050) Journal, Editorial Board Member of the Green Building & Construction Economics (GBCE) journal (ISSN 2737-5021), and reviewer of the following journals: Sustainability (MDPI) - ISSN 2071-1050; Heritage (MDPI) - ISSN 2571-9408, International Journal of Disaster Risk Reduction (Elsevier) - ISSN 2212-4209, Technologies, Engineering, Materials and Architecture (TEMA) journal (Bononia University Press) – ISSN 2421-4574, Reviewer of Cogent Arts & Humanities journal (Taylor & Francis Online) – ISSN 2331-1983, Developments in the Built Environment (Elsevier) - ISSN 2666-1659.