https://rubrica.unige.it/personale/UkNHUl5s

Serena Cattari (SC) was born on August 28, 1978. Since 2019 she is Associate Professor at the University of Genova, Department of Civil, Chemical and Environmental Engineering. Her main research fields are: i) numerical modelling and seismic performance-based assessment of existing and historical masonry buildings; ii) seismic risk analysis of the built environment at large scale; iii) soil-structure-foundation-interaction; iv) structural monitoring. SC is author of more than 200 contributions (more than 100 indexed in SCOPUS) and participated in several projects at national and international scales. She is the coordinator of the curriculum "Risk and Resilience Engineering of Natural, Industrialized and Built Environments" of the PhD program on Security, Risk and Vulnerability (https://sicurezza.unige.net).

With reference to the expertise in *numerical modelling*, SC contributed to developing the software Tremuri, which works according to the equivalent frame modelling approach and is widely used at national and international scales by both researchers and practitioners. Recently, SC coordinated the "*URM nonlinear modelling*-Benchmark project" funded by ReLUIS and the Italian Department of Civil Protection (DPC) (https://link.springer.com/journal/10518/volumes-and-issues/20-4). The project was mainly addressed to provide a critical analysis and a systematic comparison of the results obtained using several modelling approaches and software package tools on selected benchmark examples to outline a useful and qualified reference to the engineering and scientific community.

With reference to the expertise in *seismic risk analysis*, within the Seismic Risk Maps-MARS project (Coord. Proff. A.Masi and S.Lagomarsino) funded by ReLUIS- DPC, SC has coordinated together with Prof.A.Masi and V.Manfredi the Task 4.7 dealing with the seismic risk analysis of the Italian school building stock.