

Chiara D'Erme is a PhD student in **Electrical, Materials, Raw Materials, Nanotechnology and Safety Engineering (EMNE)** at Sapienza University of Rome.

In 2014 she got her Bachelor in *Technologies for Conservation and Restoration of Cultural Heritage* (thesis: Petrographic characterisation of the ancient mortars of *Santa Maria di Cerrate*) and in January 2017 she finished her Master's degree in *Science and Technology for the Conservation of Cultural Heritage* (thesis: Preparation and characterisation of protective coatings functionalised with nanoparticles for applications to Cultural Heritage) at Sapienza University of Rome.

After her graduation she won a grant for an internship abroad and she was hosted by the Materials Department of ETH where she characterised and compared ancient roman mortars coming from Rome with the Swiss ones.

Her PhD project deals with traditional materials and how micro and nano fibres of cellulose can help enhancing their properties, in order to obtain an eco-friendly composite compatible with historical surfaces.