**Short bio**

Francesca Boccaccini is a research fellow at the Institute for the Study of Nanostructured Materials of the National Research Council of Rome, where she contributes to both national and international projects. Her research primarily focuses on the development and study of sustainable multifunctional materials for applications on sensitive surfaces of cultural and artistic interest. Within the GREENART project, she investigates the properties of polymeric coatings derived from waste materials and their interaction with metal surfaces.

She graduated with honours in Sciences Applied to Cultural Heritage at Sapienza University of Rome, discussing a master's thesis about the corrosion of copper-based alloys. In 2024, she obtained a PhD with laude in Earth Sciences, Curriculum Environment and Cultural Heritage at Sapienza University of Rome. Her research project focused on the development and implementation of a validation protocol designed to test innovative materials for the conservation of metal works of art. During the PhD, she collaborated with prominent research institutions, including the Department of Chemistry "Ugo Shiff" (Florence), the Center for Colloid and Surface Science (CSGI) and the National Centre for Metallurgical Research (CENIM-CSIC) of Madrid.

In 2021, she was honored with the 'Excellent Graduate' award for the 2019-2020 academic year by Fondazione Roma Sapienza, and in 2024 her doctoral thesis received a special mention from the DTC Lazio Institution.

She is also author of scientific publications on metal corrosion and sustainable materials for the preservation of cultural heritage.