Loïc Bertrand is a researcher at the PPSM laboratory of chemistry of the Ecole Normale Supérieure Paris-Saclay (Université Paris-Saclay). He is a specialist in advanced methodologies for the study of ancient and historical materials. His personal research focuses on the study of properties of materials from the arts, archaeology and natural history through photon-based microimaging, developing methodologies based on X-ray, UV/visible and infrared synchrotron radiation, in collaboration with data scientists. He studies long-term ageing processes and exceptional preservation of biological remains and archaeological materials, manufacturing techniques used in the past, and the origin of materials used to produce archaeological objects. Loïc Bertrand founded the European institute for analysis of ancient materials IPANEMA at the SOLEIL synchrotron facility, of which he was director from 2010 to 2019. He coordinated the definition of the scientific strategy of the European Research Infrastructure for Heritage Science (E-RIHS). He currently leads the Key Research Sector on Ancient and heritage materials of the Île-de-France region (120 laboratories, companies and cultural institutions). He coordinates with Sébastien Nomade, the IAEA Collaborating Center Atoms for Heritage at Université Paris-Saclay. He teaches at ENS Paris-Saclay and is the elected chair of the Gordon Research Conference on Scientific Methods in Cultural Heritage Research in 2022.