

LM-2 Archaeological Sciences
International curriculum
Applied sciences to cultural heritage materials and sites

Proposed topics for dissertation work

Title	Supervisors (institution)	Contact person
The 3th millenium painted pottery from Mahtouthabad, Jiroft (Kerman, Iran): an integrated archaeometric approach to define the production technology of the polychrome decoration system	Lara Maritan (UNIPD), Massimo Vidale (UNIPD), Francois Desset (University of Teheran-Iran)	lara.maritan@unipd.it
Disclosing the provenance and production technology of Meroitic ceramics from Sedinga (northern Sudan)	Lara Maritan (UNIPD), Romain David (SFDAS-Sudan)	lara.maritan@unipd.it
The bricks of ancient Nora (Sardinia, Italy): production technology and raw material provenance	Lara Maritan (UNIPD), Jacopo Bonetto (UNIPD)	lara.maritan@unipd.it
Archaeometric analysis of Middle Age ceramic materials from Castelseprio and Monselice (Northern Italy)	Lara Maritan (UNIPD), Alejandra Chavarria (UNIPD)	lara.maritan@unipd.it
Ceramic alteration in underwater sites	Lara Maritan (UNIPD), Patrick Quinn (UCL), Maja Mise (Cambridge), Emanuela Mascaro (UNIPD)	lara.maritan@unipd.it
Archaeometric study of green stones from Iran and Oman	Lara Maritan (UNIPD), Massimo Vidale (UNIPD), Claudio Mazzoli (UNIPD), Chiara Coletti (UNIPD)	lara.maritan@unipd.it
From quarries to monuments: extraction and use of Istrian limestone in the Roman age	Claudio Mazzoli (UNIPD), Caterina Previato (UNIPD)	claudio.mazzoli@unipd.it

Underwater stone heritage vs. climate change: an experimental investigation of the effects of ocean acidification	Claudio Mazzoli (UNIPD), Luigi Germinario (UNIPD)	claudio.mazzoli@unipd.it
Deterioration of archaeological stone in ancient Greek-Roman underwater sites of the Mediterranean Sea	Claudio Mazzoli (UNIPD), Luigi Germinario (UNIPD)	claudio.mazzoli@unipd.it
Evolution of the constructive techniques in the periphery of the Venice Lagoon between Late Antiquity and early Medieval times: the case of the San Mauro Monastery	Michele Secco (UNIPD), Alessandra Cianciosi, Sauro Gelichi	michele.secco@unipd.it
Exploitation of natural resources for construction purposes: the volcanic breccias of the Euganean Hills and their use in ancient times	Michele Secco (UNIPD), Claudio Mazzoli (UNIPD), Caterina Previato (UNIPD)	michele.secco@unipd.it
Architectures of the Rocca di Monselice during the early and late Middle Ages: architectural sequence, construction techniques and archaeometric analysis of the binders	Alexandra Chavarria Arnau (UNIPD), Michele Secco (UNIPD)	michele.secco@unipd.it
Pigment identification and degradation in mural paintings	Gilberto Artioli (UNIPD), Alfonso Zoleo (UNIPD), Luca Nodari (CNR)	gilberto.artioli@unipd.it
Characterization of prehistoric and protohistoric metals: metallography, metal chemistry, isotopes	Gilberto Artioli (UNIPD), Ivana Angelini (UNIPD), Caterina Canovaro (UNIPD)	gilberto.artioli@unipd.it
Turquoise authentication: how can we distinguish real and fakes?	Gilberto Artioli (UNIPD)	gilberto.artioli@unipd.it
The Egyptian blue pigment: identification, manufacturing techniques, provenance	Gilberto Artioli (UNIPD), Ivana Angelini (UNIPD)	gilberto.artioli@unipd.it