

CURRICULUM VITAE ET STUDIORUM

CONTACT INFORMATION		PERSONAL INFORMATION	
Name	Alessandra Bonazza	Date of Birth	June, 14, 1973
Address	Via Savonarola, 22 44123 Ferrara	Citizenship	Italian
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EDUCATION

- **March 1998** – Degree in Geological Science at the University of Ferrara, with final score of 110 out of 110 with distinction. The degree thesis, entitled “Petroarchaeometry of artefacts in “pietra ollare” from Syria and Northern Italy”, supervised by Professors Vaccaro and Lazzarini.
- **March 2004** – Research Doctorate in Earth Sciences at the University of Earth Sciences of Ferrara, entitled “Atmospheric carbon compound analysis in damage layers on stone monuments”. The research work was carried out at the Institute of Atmospheric Sciences and Climate - ISAC of the Italian National Research Council, Bologna. The Doctorate, supervised by Professors Sabbioni and Vaccaro, focused on the study of carbon fractions from atmospheric pollution responsible for the blackening of surfaces of monuments and historic buildings in urban and industrialised areas.

POSITION HELD

Permanent researcher at the Institute of Atmospheric Sciences and Climate - ISAC of the Italian National Research Council (CNR-ISAC), Bologna.

RESEARCH ACTIVITY

The research activity followed by Dr. Alessandra Bonazza focus on the conservation and protection of Cultural Heritage in the following specific fields:

- Building materials characterisation
- Effects of climate parameters and atmospheric pollution past and present on building materials
- Climate change impact on built heritage
- Reconstruction of working technologies of bricks and mortars employed in archaeological sites of the Mediterranean Basin.

RELEVANT PROJECTS

- EC project (6FP) “Global climate change impact on built heritage and cultural landscapes (Noah’s Ark)” – (2004-2007) - <http://noahsark.isac.cnr.it>
- EC project (7FP) “Technologies and tools to prioritize Assessment and diagnosis of air pollution impact on immovable and movable Cultural Heritage (TeACH)”, (2008-2011) - www.teach-project.eu
- EC project (7FP), NANOMATCH “Nano-systems for the conservation of immovable and moveable polymaterial Cultural Heritage in a changing environment”, (2011-2014) - www.nanomatch-project.eu
- EC project (7FP), SYDDARTA “System for Digitisation and Diagnosis in ART Applications”, (2011-2014) - www.syddarta.eu

RELEVANT PUBLICATIONS

- **Bonazza A.**, Ciantelli C., Sardella A., Pecchioni E., Favoni O., Natali I., Sabbioni C., 2013. Characterization of hydraulic mortars from archaeological complexes in Petra. *Periodico di Mineralogia*, 82 (2), 459-475. DOI: 10.2451/2013PM0027.
- Belfiore C.M., Barca D., **Bonazza A.**, Comite V., La Russa M.F., Pezzino A., Ruffolo S.A., Sabbioni C., 2013. Application of spectrometric analysis to the identification of pollution sources causing cultural heritage damage. *Environmental Science and Pollution Research*, 20 (12), 8848-8859.
- Ozga I., **Bonazza A.**, Ait Lyazidi S., Haddad M., Ben-Ncerc A., Ghedini N., Sabbioni C., 2013. Pollution impact on the ancient ramparts of the Moroccan city Salé. *Journal of Cultural Heritage*, special issue, S25–S33.
- Gomez-Bolea, A., Llop E., Arino X., Saiz-Jimenez C., **Bonazza A.**, Messina P., Sabbioni C., 2012. Mapping the impact of climate change on biomass accumulation on stone. *Journal of Cultural Heritage* 13, 254-258.
- **Bonazza A.**, Sabbioni C., Messina P., Guaraldi C., De Nuntiis P., 2009. Climate change impact: mapping thermal stress on Carrara marble in Europe. *Science of the Total Environment*, 407, 4506-4512.
- **Bonazza A.**, Messina P., Sabbioni C., Grossi C. M., Brimblecombe P. 2009. Mapping the impact of climate change on surface recession of carbonate buildings in Europe. *Science of the Total Environment* 407, 2039-2050

FOREIGN LANGUAGES

- **English**
- **Spanish**

Bologna, March 21th, 2014

Firma

