

Nicola Carboni

Curriculum Vitae

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Research and Professional Experience

- July 2018 - now **Research Fellow // Semantic Architect**, *University of Zurich*, Zurich, Kunsthistorisches Institut.
- Framework for the interconnection and re-use of distributed information sets
 - Data modelling for reference sources
 - CRM Extension for Scholar Editions
- Feb. 2018 - June 2018 **Digital Humanities Fellow**, *Harvard University*, Florence, Harvard Center for Italian Renaissance Studies.
- Modeling of Iconographic & Symbolic items in visual heritage
 - Data modelling (CIDOC-CRM) of a 19th Century Epistolarium
- June 2014 - June 2018 **EU Marie Curie Early Stage Researcher**, *CNRS*, Marseille, MAP Laboratory.
- ITN-DCH project: **Initial Training Network for Digital Cultural Heritage**.
 - Create a framework for the description of tangible and intangible cultural objects.
 - Develop a CIDOC-CRM extension for iconographic & symbolic meaning of cultural objects.
 - Analysis and development of a metadata set for the registration of provenance information in 3D processing.

Visiting

Researcher, *FORTH ICS*, Heraklion, Greece.

- Ontology engineering and data integration with CIDOC-CRM.

Researcher, *KAAC*, *German Archeological Institute (DAI)*, Stuttgart, Germany.

- Data management and modelling. From Filemaker to CIDOC-CRM: M_AyaArch3D project.

Researcher, *3DOM*, *Fontazione Bruno Kessler (FBK)*, Trento, Italy.

- data acquisition and processing for image-based modeling and web visualisation of 3D point clouds. Data enrichment and provenance information.

Researcher, *NTUA*, *National Technical University of Athens*, Athens, Greece.

- Testing of OpenCV for ontology-based semantic tagging of elements in 2D images.

Conference & Workshop

- **Organiser** *ITN-DCH - Digital Heritage 2017 Final Conference*, Olimje, Slovenia.
- **Presenter** *Workshop Workflow for the Integration of Heritage Digital Resources - ITN-DCH Digital Heritage 2017 Final Conference*, Olimje, Slovenia.

- Nov. 2013 - May 2014 **Data Curator and Modeler**, *Informatica Trentina*, Trento, Italy, Open Data project.
- Development a bottom-up ontology for describing public data.
 - Data cleaning, refinement mapping and enrichment.
 - In charge, from a technical standpoint, of the release of the data. Responsible for developing guidelines for the providers.
 - Coordinating the information architecture and workflow of of the catalog & collaborating in the EU FP7 Fusepool project.
- Oct 2012 - Dec 2012 **Research internship**, *CVCE - Digital Humanities Lab*, Salem, Luxembourg.
- image-based modeling of underwater cultural heritage assets.
 - Developing an entity-relationship model for the EU FP7 project CUBRIK.
 - Creating guidelines and workflows for the model.
 - Defining the rules of an authority file for non-authors (EU politicians)

Education

- jun 2014 - present **PhD, Engineering**, *NTUA*, Athens, Greece.
- *Objective 1*: How visual information relate to reality.
 - *Objective 2*: What kind of method could be used for recording, enriching and retrieving information about visual items.
 - *Objective 3*: How their semantic description help us understand the visual culture.
- 2011 - 2013 **International MA in Digital Library Learning**, *DILL*, Oslo, Tallinn, Parma, Erasmus Mundus.
- *Major*: Digital library.
 - *Thesis title*: Digital preservation network: a case study about CLOCKSS.
 - *Thesis content*: Interviews, document and workflow analysis about the usage, the governance, and the trends of CLOCKSS as main distributed network for the digital preservation of e-journals.

Universities

Oslo Metropolitan University, *OsloMet*, Oslo, Norway.

- *Courses include*: Ontology creation, Linked Open Data, RDF, Metadata, Usability studies.

Tallinn University, *TLU*, Tallinn, Estonia.

- *Courses include*: Knowledge management and business oriented information management.

Universit di Parma, *UNIPR*, Parma, Italy.

- *Courses include*: UX, project management, KPI and evaluation methods, digital library management.

2007 - 2010 **Bachelor in Cultural Heritage Science**, *UNIPI*, Pisa, Italy.

- *Major*: Cultural Heritage Science.
- *Courses include*: Information science, knowledge organisation, textual bibliography, cataloguing, history of art, literature, ethnography, history.

Languages

Italian Native
 English Fluent
 French Intermediary

Computer Skills and Technologies

Data UML, XML, RDF, Protege, OpenRefine, Silk, 3M, Ontop.
Web HTML, CSS, Drupal, KirbyCMS, Wordpress.
3D MicMac, Photoscan, Potree, 3DHOP, Faro Scene, MeshLab.
Server Apache, SQL, TemaTres, iQvoc, Skosmos.
Other QGIS, CLI, Markdown, *FTP, GIT, Microsoft/Libre Office, Adobe Lightroom/Photoshop, Omnigraffle & Wireframing.
Platforms Mac OS, Linux, Windows.

Publications

- 2017 George Bruseker, Nicola Carboni, and Anas Guillem. The Role of Formal Ontology and CIDOC CRM. In M. L. Vincent, V. M. Lopez-Menchero, M. Ioannides and T. E. Levy (Eds.), *Heritage and Archaeology in the Digital Age*, pages 931-31. Springer, 2017.
- Nicola Carboni and Livio De Luca, Towards a Semantic Documentation of Heritage Objects through Visual and Iconographical Representations, *International Information Library Review*, 49(3).
- 2016 M.M. Ramos, D. Bellido, N. Carboni, M. Domajnko, E. K. Stathopoulou, G. Stavropoulou, D. Morabito, and F. Remondino. Complex 3d heritage architectures accessible on the web. In *Proc. 8th Arqueologica 2.0*, pages 426–429, 2016.
- Nicola Carboni and Livio De Luca, Towards a conceptual foundation for documenting tangible and intangible elements of a cultural object, *Digital Applications in Archaeology and Cultural Heritage*, 3(4):108–116.
- Nicola Carboni, G Bruseker, A Guillem, Diego Castañeda Bellido, Chance Coughenour, M Domajnko, Marleen de Kramer, Magda Calles Ramos, E K Stathopoulou, and Rossella Suma, Data Provenance in Photogrammetry Through Documentation Protocols, *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, pages 57–64.
- 2015 G Bruseker, A Guillem, and N Carboni, Semantically Documenting Virtual Reconstruction: Building a Path to Knowledge Provenance, *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, II-5/W3:33–40.

Scholarships, Awards and Grants

- 2018 Digital Humanities Fellowship. Harvard University.
2014-2017 Marie Curie Early-Stage Researcher Fellowship. European Commission (FP7).
2011-2013 EU - Erasmus Mundus Master Programme Scholarship.

Miscellaneous

- May 2017 Chair of the session "*Ontologies and Metadata in Digital CH*" - ITN-DCH Digital Heritage 2017 Final Conference, Olimje, Slovenia.
Nov 2016 Chair of the session "*3D Reconstruction and Modeling*" - Euromed 2016, Nicosia, Cyprus.