

**Valentina
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Carriero**

May 12th, 1992



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Current position: Research assistant (assegnista di ricerca) at STLab, ISTC-CNR, Rome - since December 2017



STUDIES

October 2014 - Master's Degree

March 2017 Italianistica, Culture Letterarie Europee, Scienze Linguistiche (Italian Studies, European Literary Cultures, Linguistics)

Alma Mater Studiorum, University of Bologna

110/110 cum Laude

Thesis in Digital Archives (17/03/2017)

Il concetto di soggetto produttore nel MAB. Una proposta di modello ontologico

(The concept of creator in MAB. A proposal for ontology)

This work addresses the current convergence phenomena between three areas of cultural heritage protection in the MAB - museums, archives and libraries - in the light of semantic web. An analysis of the contemporary horizon regarding the description of the creators and the relationships between same, is followed by an ontological model proposal (available at URL <<http://w3id.org/cpf-rel>>), which aims to allow a correct and complete representation of the relationships between creative entities and their roles, limiting the loss of information and facilitating semantic research.

Exams: digital archives, digital printing, cognitive science, rhetoric, linguistics

skills: OWL, RDF(S), XML

October 2011 - Bachelor's Degree

October 2014 Lettere, Curriculum Classico (Classical Studies)

Alma Mater Studiorum, University of Bologna

110/110 cum Laude

Thesis in Digital Humanities (13/10/2014)

Dizionario di affissi per CORIS/CODIS: tra markup e ontologia

(Affixes' dictionary for CORIS/CODIS: from markup to ontology)

The aim of this thesis is to study the best approach to represent the affixes' dictionary of the Italian corpus CORIS/CODIS, from markup to ontology.

Exams: digital humanities, applied linguistics, sociolinguistics
skills: HTML, CSS, TEI

2006 - 2011 High School Diploma
Liceo Classico D'Annunzio, Pescara
100/100 cum Laude



EXPERIENCE

December 2017 - in progress **Research assistant (assegnista di ricerca)**
at **STLab, ISTC-CNR, Rome**
Semantic Web - Linked Data - Ontology Design

I am a research assistant at the [Semantic Technology Laboratory](#) of the Italian National Research Council (CNR).

My research project consists of building knowledge graphs based on ontologies and linked data with focus on the Cultural Heritage domain, to support the integration of existing datasets, the publication of open data and the development of semantic services for Digital Libraries.

I'm currently contributing to [ArCo](#) (Architecture of Knowledge), a CNR and [ICCD](#) (MiBAC) project, for cultural heritage enhancement through the publication of LOD.

The main activities of the project include the definition of a network of ontologies for representing information contained in the Italian General Catalogue of Cultural Heritage and the translation and publication of catalogue's data as LOD, according to our ontologies. Moreover, I directly manage an Early Adoption Program and interact with the stakeholders.

My research interests include Ontology Design, Linked Open Data, Semantic Web and Semantic Technologies.

skills: XML, OWL, RDF(S), Ontology Design Patterns, XSLT, SPARQL, Python

May – October 2019 **Teaching assistant (tutor didattico)**
40 hours Informatica di Base
at FICLIT, Alma Mater Studiorum, University of Bologna

May - November 2017 **Conversational Designer**
at **Heres Srl, Bologna**
Artificial Intelligence - Conversational design for chatbot

At [Heres](#), I was involved in the design of Heres' chatbots, taking care of the ideation and development of conversational interfaces. More specifically, my tasks were to imagine customer's questions and the relevant possible answers, to formulate bot's responses, to define bot's

action during the conversation. Every implementation was followed by a test session. As conversational designer, I had to guarantee every interaction to be accurate and intuitive.

April 2014 - in progress **Editor part-time**
at Società Editrice **il Mulino**, Bologna
Digital Printing - Editorial software

At the beginning of my part-time editorial activities at [il Mulino](#), I reviewed HTML pages for the publisher site. Currently, I periodically publish papers' abstracts and keywords on <[www.rivisteweb.it](#)>, convert PDF books' indexes to HTML, write books' search indexes and bibliographies, work on digital editions. I'm interested in digital printing in every aspect.

skills: HTML, XML

April - April 2016 **Intern**
150 hours at **Regesta.exe**, Rome
Linked Open Data for cultural heritage - Ontologies and international standards for the description of cultural heritage

My internship activities at [Regesta.exe](#) concerned Linked Open Data and Semantic Technologies in general.

I contributed, in the frame of a [project](#) with IBC (Institute for Cultural Natural and Artistic Heritage) Emilia-Romagna, to the creation of a stylesheet with XSL Transformation, for data extraction, followed by the publication online.

I also contributed to a [project](#), already under way, with CDEC (Foundation of Contemporary Jewish Documentation Center), for the implementation of an ontology in the domain of the Shoah. The ontology needed indeed a revision and an extension.

skills: XML, OWL, RDF(S), XSLT

December 2013 - **Intern**
February 2014 at **duDAT Srl**, Bologna
150 hours *Digital printing and proof-reading*

During the internship at [duDAT](#), I was trained in editorial activities: proof-reading of school books, drafting of exercises for both students and teachers, chapters' layout (LaTeX).

skills: LaTeX, HTML

1st - 7th July 2018 [International Semantic Web Research Summer School](#)
Bertinoro, Italy

Topics: KR Querying Reasoning for Large Knowledge Graphs; Ontology Design Patterns and Linguistic Frames; Machine Learning, embeddings for large Knowledge Graph; Crowdsourcing; Distributed decentralised Semantic Web.

Activities: Research task force on a research problem (Linked Data Incompleteness); Poster session

3rd - 7th July 2017 **Summer School**
40 hours [Linked Data per i Beni Culturali](#) (Linked Data for Cultural Heritage)
Alma Mater Studiorum, University of Bologna
Campus of Ravenna

Topics: Linked Data as global language; Linked Data for bibliography; LOD Lifecycle; Data Modelling; RDF Vocabularies and Authority Lists; Triple Construction; Data Cleaning and Reconciliation; Data Interlinking, Enriching and Publication; Query and Consumption.



PUBLICATIONS

peer-reviewed publications Carriero, Valentina Anita, Gangemi, Aldo, Mancinelli, Maria Letizia, Marinucci, Ludovica, Nuzzolese, Andrea Giovanni, Presutti, Valentina, Veninata, Chiara. "[ArCo: the Italian Cultural Heritage Knowledge Graph](#)" *arXiv preprint arXiv:1905.02840* (2019).

accepted at [ISWC 2019](#), Resources Track

Carriero, Valentina Anita, Daquino, Marilena and Tomasi, Francesca. "[Semantic alignment in museums, archives and libraries. The ontologies for describing relationships](#)" *JLIS.it* 10.1 (2019): 72-91. DOI: <http://dx.doi.org/10.4403/jlis.it-12499>

Carriero, Valentina Anita, Gangemi, Aldo, Mancinelli, Maria Letizia, Marinucci, Ludovica, Nuzzolese, Andrea Giovanni, Presutti, Valentina, Veninata, Chiara. "ArCo Ontology Network and LOD on Italian Cultural Heritage" presented @ [ODOCH](#) (2019)

Technical Reports Ghor, Tayeb Abderrahmani, et al. "[Linked Open Data Validity--A Technical Report from ISWS 2018.](#)" *arXiv preprint arXiv:1903.12554* (2019).

Carriero, Valentina Anita, Gangemi, Aldo, Marinucci, Ludovica, Nuzzolese, Andrea Giovanni, Presutti, Valentina. "[ArCo: un knowledge graph per il patrimonio culturale](#)" @ [Ital-IA workshop AI for Cultural Heritage](#) (2019)

Mancinelli, Maria Letizia, Veninata, Chiara, Carriero, Valentina Anita, Gangemi, Aldo, Marinucci, Ludovica, Nuzzolese, Andrea Giovanni, Presutti, Valentina. "Nuovi approcci alla diffusione della conoscenza sul patrimonio archeologico" poster presented by Carriero, Valentina Anita @ [FOSS4G-IT](#) (2019)

Conference Contributions

best poster, second place
International Semantic Web Research Summer School ISWS2018, Bertinoro, Italy

Awards

ArCo, Architecture of Knowledge
<<http://wit.istc.cnr.it/arco/index.php?lang=en>>
<<https://github.com/ICCD-MiBACT/ArCo>>
a CNR and [ICCD](#) (MiBAC) project, for cultural heritage enhancement through the publication of LOD. The main activities of the project included the definition of a network of ontologies for representing information contained in the Italian General Catalogue of Cultural Heritage and the translation and publication as LOD of catalogue's data, according to our ontologies.

Projects

Atlas of Paths
<<http://stlab.istc.cnr.it/stlab/project/atlas-of-paths/>>

aims at the creation and implementation of a network of ontologies representing information contained in the MiBACT [Atlante dei Cammini](#) and the design of a modular software platform that allows the generation, management and use of Linked Data of the Cammini d'Italia domain.

LANGUAGE SKILLS Italian, mother tongue
English, good

Ai sensi dell'art. 15 co. 1 lett. c) del Decreto Legislativo 33/2013 ed in ottemperanza delle disposizioni del D.P.R. 445/2000 la sottoscritta Valentina Anita Carriero nata a San Giovanni Rotondo (FG) il 12/05/1992 dichiara di svolgere incarichi e/o avere titolarità di cariche di diritto privato regolati o finanziati dalla pubblica amministrazione e/o di svolgere attività professionali, come di seguito specificati:
- Assegnista di Ricerca presso ISTC-CNR dal 4/12/2017 al 30/10/2019.