europass Curriculum vitae

PERSONAL INFORMATION

Matteo Lorenzini

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Gender Male | Date of birth 14 July 1981 | Nationality Italian

WORK EXPERIENCE

May 2015 – Present — Researcher

Austrian Academy of Sciences
Autrian Center for Digital Humanities 19, Sonnenfelsgasse, 1010 Wien (Österreich)

Research activities carried out in Parthenos project. Detailed achievements:

- Mapping of CMDI model to CIDOC-CRM ontology
- Development of Parthenos Entity model
- Optimization of SPARQL query over different datasets

Personal research activities and interests:

- Study and development of hybrid SPARQL query

May 2014–Apr.2015 — R&D operation officer-found rising

Hyperborea s.r.l, Polo Tecnologico di Navacchio (PI)
Via Giuntini, Navacchio (PI) (Italy)

Writing project deliverable for European Projects SDI4APPS and LINDA both focused on management and visualization of Linked Open Datadata using cloud architecture in Digital Humanities domain, WP leader for SDI4APPS project.

Detailed achievements:

- Definition of technical testing methodology for cloud components IAAS- Agile method-
- Development of API in Digital Humanities domain
- Development of semantical data model
- Data mining
- Development of solutions and platforms concerning:
  - Data representation
  - Data visualization
  - Data harmonization
- Development and testing of NoSQL platform and SPARQL end-point.

May 2009 – Dec.2012 — Operation Officer / Project Manager

Ministry of Cultural Heritage
Istituto Centrale per il Catalogo Unico (ICCU) Biblioteca Nazionale, 105, Viale Castro Pretorio, Rome (Italy)

Operation Officer in charge both of data mapping and data harmonization of metadata harvested in CulturaItalia repository both of data mapping from PICO applicationprofile to ESE/EDM data models. Supporting Cultura Italia's content provider during ingestion process: data mapping in PICO Application profile, development of OAI-PMH repository, metadata validation and metadata harvesting. Coordination of contents provider's ingestion plan. Coordination of R&D sector.

Detailed achievements:

- Ontology modelling
- Development of Linked Open Data models
- Skossification of PICO application profile
- Data Mapping and Data Harmonization:
  - PICO Application Profile to ESE
  - PICO Application to EDM
  - PICO Application to CIDOC-CRM
- Writing deliverable project
- Development of Proof of Concept architecture for Linked Data management
- Development of SPARQL end-point of `http://dati.culturaitalia.it/?locale=it`

2011 Researcher

Universita Politecnica delle Marche
Department of Computer Engineering, 12, Via delle Brecce Bianche, 60131, Ancona (Italy)

Study and development of knowledge model and their application in semantic annotation on Digital Humanities domain. Research activities carried out in SemLib european project -Semantic web tools for digital libraries-

Detailed achievements:

- Definition of ontological and concaptual model
- Ontology modelling
- Data Mapping
  - CIDOC-CRM
  - SKOS
- Writing deliverable project

2010 - 2011 Data Scientist

ETC WARE s.r.l
13, Via Etna, Roma (Italy)

Study and development of knowledge model based on CIDOC-CRM ontology and data mapping from ICCD schema to CIDOC for baseculturale.it project

Detailed achievements:

- Definition of ontological and concaptual model
- Data Mapping
  - CIDOC-CRM
  - SKOS
- Writing deliverable project
- Development of data mapping stylesheet from ICCD schema to CIDOC
- Data Validation

2006 - 2008

Junior Researcher

Universita degli Studi di Firenze
PIN P.zza Ciardi, Prato (Italy)

Study and development of knowledge model based on CIDOC-CRM ontology and data mapping from ICCD schema to CIDOC for archaeological data. Study and development of semantic GIS using GML standard

Detailed achievements:

- Definition of ontological and concaptual model
- Data Mapping
  - CIDOC-CRM
  - GML
- Writing deliverable project
- Development of data mapping stylesheet from ICCD schema to CIDOC
- Development of Geographical Information System platform

EDUCATION AND TRAINING

2013

Visiting Researcher

Stanford University -CESTA Lab-

Topics:

- Data Visualization and Representation
- Data Mapping and Refinement
- Natural Language Processing

2012–2014

Graduate School - Thesis Title: Semantic Web and Cultural Heritage: Europeana's API for the representation and visualization of digital resources

ISCED 6

Universita degli Studi di Sassari, Sassari (Italy)

Topics:

- Python
- Europeana data Model
- API
- Data integration
- Dublin Core
- digital Libraries

2006–2009 **Master Degree - Thesis Title: Data and archaeological knowledge: The CityGML model applied to data mapping of 3D objects from Uchi Maius -Tunisia-**

Universita degli Studi di Pisa, Pisa (Italy)

Topics:

- CIDOC-CRM
- CityGML
- RDF / OWL / SKOS
- Archaeology

2002–2005 **Bachelor Degree - Thesis Title: Archaeological quantification of artifacst: methods and techniques**

Universita degli Studi di Pisa, Pisa (Italy)

Topics:

- RDBMS
- SQL
- Archaeology

PERSONAL SKILLS

Mother tongue: Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
French	B1	B1	B1	B1	B1
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user – B1/B2: Independent user – C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Communication skills

- Team work: Excellent skills gained thanks to my research activity carried out in different european projects.
- Mediating skills: Confident, articulate, and professional speaking abilities. Speaking in public, to groups, or via electronic media. Presentation and negotiation skills.
- Intercultural skills: I developed an open mind to all culture and willingness to understand, through many years of experience in international projects.

Organisational / managerial skills

- Able to work independently including planning and executing activities with minimum supervision.
- Able to organize tasks in a team situation and able to motivate colleagues and meet dead lines.
- Enthusiastic to learn new knowledge from everyone in an organization or team.

Digital competences

SELF-ASSESSMENT				
Information Processing	Communication	Content creation	Safety	Problem solving
Proficient user	Independent user	Proficient user	Independent user	Proficient user

Digital competences - Self-assessment grid

Computer skills

Programming Languages:

- Basic: Scala, Java
- Intermediate: Ruby
- Advanced: Python, PHP, XML, XSL, XSLT, RDF, OWL, OWL-DL, SKOS, R

Tools and Services:

- GIS: Grass, PostGIS, QGIS, MapServer, Geoserver
- Data Management: PostgreSQL, MySQL, MongoDB
- Triple Store and reasoning engine: Sesame, Virtuoso, Blazegraph, Jena
- Data Indexing: Apache Solr, Stanbol
- Data Visualization: D3js, Bokeh, MatLab
- Platform: Unix, Osx

Ontologies and Metadata Profiles:

- Ontologies: CIDOC-CRM, DOLCE, EDM
- Metadata profile: Dublin Core, Mets, VRA, PICO, TEI, CMDI

Driving licence A, B

Publications

[1] A.Ciapetti, M.De Vizia, A.Donnini, M.Lorenzini, M.E.Masci, D.Merlitti, F.Piro, and O.Signore. Lifting communities towards semantic web. In *5th International Congress "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin"*, 2011.

[2] A.Ciapetti, M.De Vizia, A.Donnini, M.Lorenzini, M.E.Masci, D.Merlitti, F.Piro, and O.Signore. Baseculturale.it: Un portale semantico per i beni culturali. In *Quaderni dell centro studi Magna Grecia*. Universita Federico II di Napoli Centro interdipartimentale di studi sulla Magna Grecia, 2012.

[3] A.Ciapetti, M.De Vizia, A.Donnini, M.Lorenzini, M.E.Masci, D.Merlitti, F.Piro, and O.Signore. Skossifing user generated content. *Conference on Information Technologies for Performing Arts, Media Access and Entertainment-ECLAP2012-*, pages 137–142, 2012.

[4] A.D'Andrea, A.Felicetti, M.Lorenzini, and C.Perlingieri. Spatial and non-spatial archaeological data integration using mad. In P.Axel, K.Lambers, and I.Herzog, editors, *Proceedings of the 35th International Conference on Computer Applications and Quantitative Methods in Archaeology*, page 241, 2008. ISBN 9783774935563.

[5] A.Felicetti and M.Lorenzini. Integrazione di dati archeologici geografici e non geografici con mad. In *atti del workshop Open Source, Free Software e Open Formats nei processi di ricerca archeologica*, 2007.

[6] A.Felicetti and M.Lorenzini. Open source and open standards for using integrated geographic data on the web. In D.Arnold, A.Chalmers, and F.Niccolucci, editors, *Future Technologies to empower Heritage Professionals. The 8th International Symposium on Virtual Reality, Archae- ology and Cultural Heritage Brighton*, 2007.

[7] A.Felicetti and M.Lorenzini. Metadata and tools for integration and preservation of cultural heritage 3d information. In K.Pavelka, editor, *CIPA 2011 scientific journal and symposium proceedings*, 2011. ISBN 978-80-01-04885-6.

[8] A.Felicetti, M.Lorenzini, and F.Niccolucci. Semantic enrichment of geographic data and 3d models for the management of archaeological features. In A.Artusi, M.Joly-Parvex, G.Lucet, G.Ribes, and D.Pitzalis, editors, *VAST 2010 International Symposium on Virtual Reality, Archaeology and Cultural Heritage proceedings of conference*, 2010.

[9] A.D' Andrea, M. Lorenzini, and M.Milanese. A novel approach to 3d documentation and description of archaeological features. In F.Javier Melero, P.Cano, and J.Revelles, editors, *Proceedings of the 38th Interna- tional Conference on Computer Applications and Quantitative Methods in Archaeology (CAA)*, 2010. ISBN:978-84-693-0772-4.

[10] M. Lorenzini. 3d reconstruction of the lion temple at musawwarat es sufra: 3d model and domain ontologies. In M. H. Zach, editor, *Proceedings of the 11th internationalc conference for meroitic studis*, pages 381 – 388. University of Vienna, 2015.

[11] M. Lorenzini. Le api di europeana come esempio di iintegrazione rappresentazione delle risorse culturali. In P. Basso, A. Caravale, and P. Grossi, editors, *Archeologia e Calcolatori*, volume 26, pages 81 – 95, 2015.

[12] M.Lorenzini. Semantic approach to 3d historical reconstruction. In L.Gonzo, F.Remondino, and S.El-Hakim, editors, *International Archives of Photogram- metry, Remote Sensing and Spatial Information Sciences*, 2009. ISSN 1682-1777.