ARIANNA MORETTI

Ph.D. Candidate in Cultural Heritage in The Digital Ecosystem at the University of Bologna, in History and Cultural Heritage at the University of Helsinki (Helsinki Computational History Group), and in Una Europa Doctoral Programme in Cultural Heritage - Developer at OpenCitations

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Digital Skills

- Python: Data extraction, visualization
- Semantic Web Technologies
- Front-end web: HTML, CSS, JavaScript
- Graph Database Management
- Computational Thinking, Algorithms
- Version Control Systems: Git
- Communication Protocols: HTTP, HTTPS
- Data Models: Cultural Heritage Domain
- Procreate and Procreate Dreams
- Nomad Sculpt, Blender

Languages

Italian	★★★★★
English	★★★★☆
French	★★★☆☆

Extras

- For additional projects, software, and publications, please visit my portfolio.

About Me

I am a Ph.D. student in **Cultural Heritage in the Digital Ecosystem** at the University of Bologna. Additionally, I work as a Python software developer at **OpenCitations**, focusing on automating **metadata crosswalks** and creating **reusable workflows** for exchanging differently modeled metadata in the **cultural heritage domain**, particularly in RDF serialization formats. I extend these research interests to Spoke 4 of the PNRR Extended Partnership 5 (CHANGES project).

Experience

PH.D. STUDENT *since March 2023*
University of Bologna (FICLIT) - Italy
University of Helsinki (ComHis) - Finland

Automation of metadata crosswalks for cultural heritage, with a focus on RDF serialization. Active participation in the CHANGES project and contribution to the PNRR Extended Partnership. Software development at OpenCitations.

TEACHING TUTOR *2022-2024*
University of Bologna (FICLIT) - Italy

Support for Basic Computer Science course (A-L) in the Humanities program at the University of Bologna, covering computational thinking, data structures, algorithms, programming languages, World Wide Web, internet, information transfer, web pages, and IT in humanities.

SOFTWARE DEVELOPER - RESEARCH FELLOW *2022 - 2023*
University of Bologna (FICLIT) - Italy

Python development, citation indexes creation, data visualization in JavaScript, API utilization, Semantic Web technologies application. Contributions to diverse projects, including collaborative scholarly writing, all in adherence to the Open Science principles.

Education

DIGITAL HUMANITIES AND DIGITAL KNOWLEDGE *2019 - 2022*
Master's Degree (110/110L)

ANTHROPOLOGY, RELIGIONS AND ORIENTAL CIVILIZATIONS Bachelor's Degree (110/110L) *2016 - 2019*

CLASSICAL HIGH SCHOOL *2011 - 2016*
High School Diploma (100/100L)

Publications

2025
- Developing Application Profiles for Enhancing Data and Workflows in Cultural Heritage Digitisation Processes. *The Semantic Web – ISWC 2024.*

2024
- Saving temporary exhibitions in virtual environments: The Digital Renaissance of Ulisse Aldrovandi – Acquisition and digitisation of cultural heritage objects. *Digital Applications in Archaeology and Cultural Heritage.*

- A Proposal for a FAIR Management of 3D Data in Cultural Heritage: The Aldrovandi Digital Twin Case. *Data Intelligence.*

- The OpenCitations Index: Description of a database providing open citation data. *Scientometrics.*