Bridging Data Science and Intellectual History: Computing the Nodes and Edges in and around the Old University of Louvain (1425-1797)

A Data Management Plan created using DMPonline.be

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Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset name / ID	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
		Indicate: **N**(ew data) or **E**(xisting data)	Indicate: **D**(igital) or **P**(hysical)	Indicate: **A**udiovisual **I**mages **S**ound **N**umerical **T**extual **M**odel **SO**ftware Other (specify)		Indicate: <1GB <100GB <1TB <5TB >5TB NA	
Lovaniensia	Metadata of the rare books of the Lovaniensia platform	E	D	T, N	MARC21 XML	<1GB	
Collectio academica antiqua (Caa)	Metadata of the texts from scholars from the Old University, or related to the Old University brought together by the libraries of UCLouvain and KU Leuven	E	D	T, N	MARC21 XML	<1GB	
Repertorium eruditorum totius Europae (RETE) dataset on Louvain scholars and literati	Database storing information collected on Scholars and Literati at the Universitas Lovaniensis (1425–1797)	E	D	T, N	Excel spreadsheet	<1GB	

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

https://lovaniensia.be
https://kuleuven.limo.libis.be/discovery/search?query=any,contains,%22academic%20collection%22&tab=all_content_tab&search_scope=KULEUVEN_CATALOG&vid=32KUL_KUL:KULeuven&facet=rtype,include,rarebook&offset=0
https://ojs.uclouvain.be/index.php/RETE/article/view/63043

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.

- No

Will you process personal data? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).

- No

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material or Data transfer agreements, Research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- Yes

We are working together with DOC and the research data manager Naeem Muhammad on data transfer agreements. In principle, data provided by the KU Leuven libraries are open source.

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the

comment section to what data they relate and which restrictions will be asserted.

- No

Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, codebook.tsv etc. where this information is recorded).

Annotations on the progress of the data analysis involving the dataset mentioned in the PhD's student Research journal on OneNote and on Jupyter notebooks. These annotations can easily be transformed in README.txt files and more broadly in instructions.

Will a metadata standard be used to make it easier to find and reuse the data?
If so, please specify which metadata standard will be used.

If not, please specify which metadata will be created to make the data easier to find and reuse.

- No

We are working with already existing metadata from the KU Leuven libraries on a template for a description of our data. We are working together with DOC and the research data manager Naeem Muhammad on standard workflow. Data provided by the KU Leuven libraries are open source.

Data Storage & Back-up during the Research Project

Where will the data be stored?

- OneDrive (KU Leuven)

How will the data be backed up?

- Personal back-ups I make (specify below)
- Standard back-up provided by KU Leuven ICTS for my storage solution

Data are stored and updated on the shared OneDrive as well as on the PhD Student's laptop hard drive to ensure backups.

Is there currently sufficient storage & backup capacity during the project?

If no or insufficient storage or backup capacities are available, explain how this will be taken care of.

- Yes

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

The OneDrive folders where the data are stored are secure because only KU Leuven PIs and the Doctoral student who have authenticated themselves using a multi-factor authentication process (mandatory for KU Leuven users) can access. As far as the back-ups on hard drives, the laptop used are KU Leuven laptops so they require the same secure authentication process.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

Currently provided by the project. In the medium run the expected costs for data storage and backup will be covererd by the research infrastructure Studium.AI, which also provides a server.

Data Preservation after the end of the Research Project

Which data will be retained for 10 years (or longer, in agreement with other retention policies that are applicable) after the end of the project?

In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

- All data will be preserved for 10 years according to KU Leuven RDM policy

Where will these data be archived (stored and curated for the long-term)?

- KU Leuven RDR

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

In the medium run the expected costs for data storage and backup will be covered by the research infrastructure Studium.AI, which also provides a server.

Data Sharing and Reuse

Will the data (or part of the data) be made available for reuse after/during the project?
Please explain per dataset or data type which data will be made available.

- Yes, as open data

If access is restricted, please specify who will be able to access the data and under what conditions.

Question not answered.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

Please explain per dataset or data type where appropriate.

- No

Where will the data be made available?

If already known, please provide a repository per dataset or data type.

- KU Leuven RDR (Research Data Repository)

When will the data be made available?

- Upon publication of research results

Which data usage licenses are you going to provide?

If none, please explain why.

- CC-BY 4.0 (data)

Do you intend to add a persistent identifier (PID) to your dataset(s), e.g. a DOI or accession number? If already available, please provide it here.

- Yes, a PID will be added upon deposit in a data repository

What are the expected costs for data sharing? How will these costs be covered?

In principle, RDR is free.

Responsibilities

Who will manage data documentation and metadata during the research project?

Question not answered.

Who will manage data storage and backup during the research project?

The PhD researcher along with the PIs

Who will manage data preservation and sharing?

The PhD researcher along with the PIs

Who will update and implement this DMP?

The PhD researcher along with the PIs

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