

# Digital Tools & Resources for Research

**Digital Humanities Lab**  
Kunsthistorisches Institut in Florenz

Alessandra Failla

Rafael Uriarte



# Digital Humanities Lab

Get in touch!

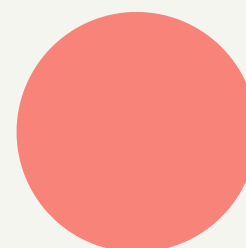
**DH Lab**

dh@khi.fi.it



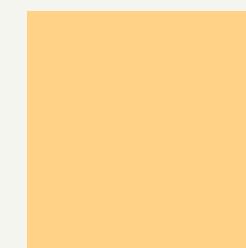
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# Digital Humanities Lab

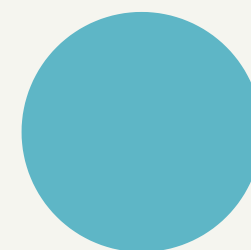
## DH Days

Meetings on Digital Humanities topics – any suggestions are welcome!



## DH Projects

Collaborations and support in DH projects.



## DH Lab Website

<https://dhlab.khi.fi.it/>



# Overview

-  MPG services overview: MPDL and Academic Cloud
-  AI Tools for Research
-  Organizing Research
-  Publishing Data

# MPDL & ACADEMIC CLOUD

-  Max Planck Digital Library
-  Tools for Open Access Publishing
-  Academic Cloud

# Max Planck Digital Library

<https://www.mpdl.mpg.de/>

The Max Planck Digital Library (MPDL) in Munich is a central institution of the Max Planck Society. It supports Max Planck Society (MPG) scientists from all 84 institutes with a broad service portfolio and provides easy access to data, scientific literature, commercial software licenses, scientific communication tools and services, and research-related software applications.

## Research Service Catalog

Please check out our service catalog. If you can't find what you are looking for or if you have any questions, feel free to [contact](#) us.

For all services apply the [Terms of Services of the Max Planck Digital Library](#) .

ALL

PUBLISHING & READING

SOFTWARE & DATA SERVICES

STRATEGIC SERVICES



### Bibliographic Databases

Discover relevant papers and books



### bloxberg

The Blockchain for Science



### Citation Databases

What's your Impact?

PUBLISHING & READING

SOFTWARE & DATA SERVICES

STRATEGIC SERVICES

Save the Date: Open Science Days 2025



Join Minerva Messenger!



10.02.2025

### Llama 3.3-70B and ChatGPT o3-mini Now Available in Minerva Messenger

The Max Planck Digital Library, in collaboration with GWDG, has integrated Llama 3.3-70B into Minerva Messenger. Hosted and managed by GWDG, this AI-powered addition enhances research, communication, ...

20.02.2025

### MPDL supports KOALA's Diamond Open Access journal bundle for Computer Science & Mathematics

The Max Planck Digital Library is happy to announce its contribution to TIB's KOALA bundle for computer science and mathematics from 2025 to 2027: Journal of Universal Computer Science - ...

# Tools for Open Access Publishing

✿ MPG Open Access Journal Finder:  
<https://oapublishing.mpdl.mpg.de/journals/>

✿ MPDL Arrangements:  
<https://www.mpdl.mpg.de/en/services/service-catalog/oa-goldpublishing>

✿ MPG.PuRe:  
<https://pure.mpg.de/>

✿ DOI Service:  
<https://doi.mpdl.mpg.de/>

✿ Directory of Open Access Journals  
(DOAJ): <https://doaj.org>

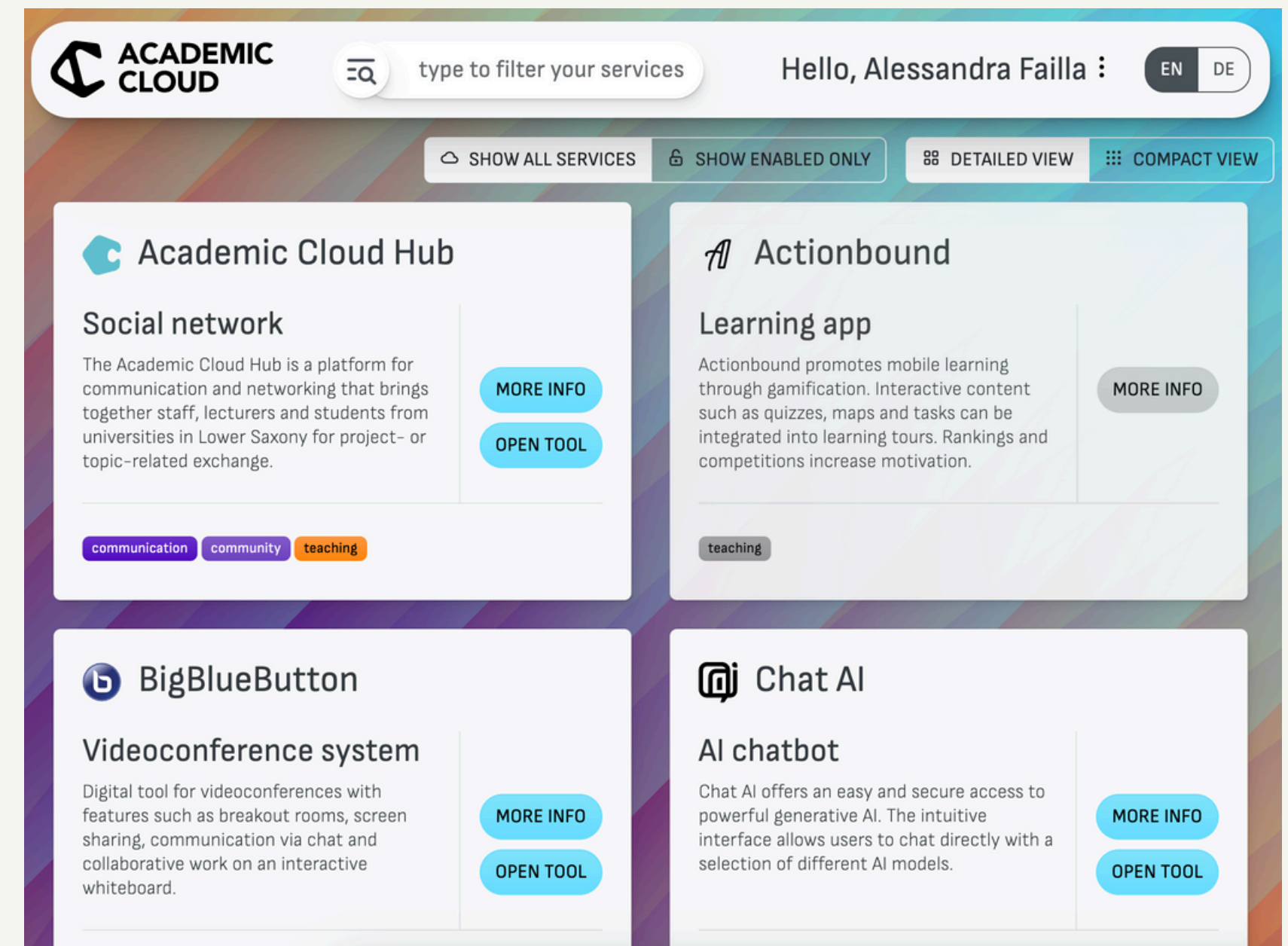
➡ PhD-Net Open Science Working Group: <https://www.phdnet.mpg.de/phdnet/who/workgroups/open-science-group>



# Academic Cloud

<https://academiccloud.de/services/>

Secure, collaborative cloud service for academic research. It offers controlled data sharing, proven software tools, and single-account access via a unified portal.





# AI TOOLS FOR RESEARCH

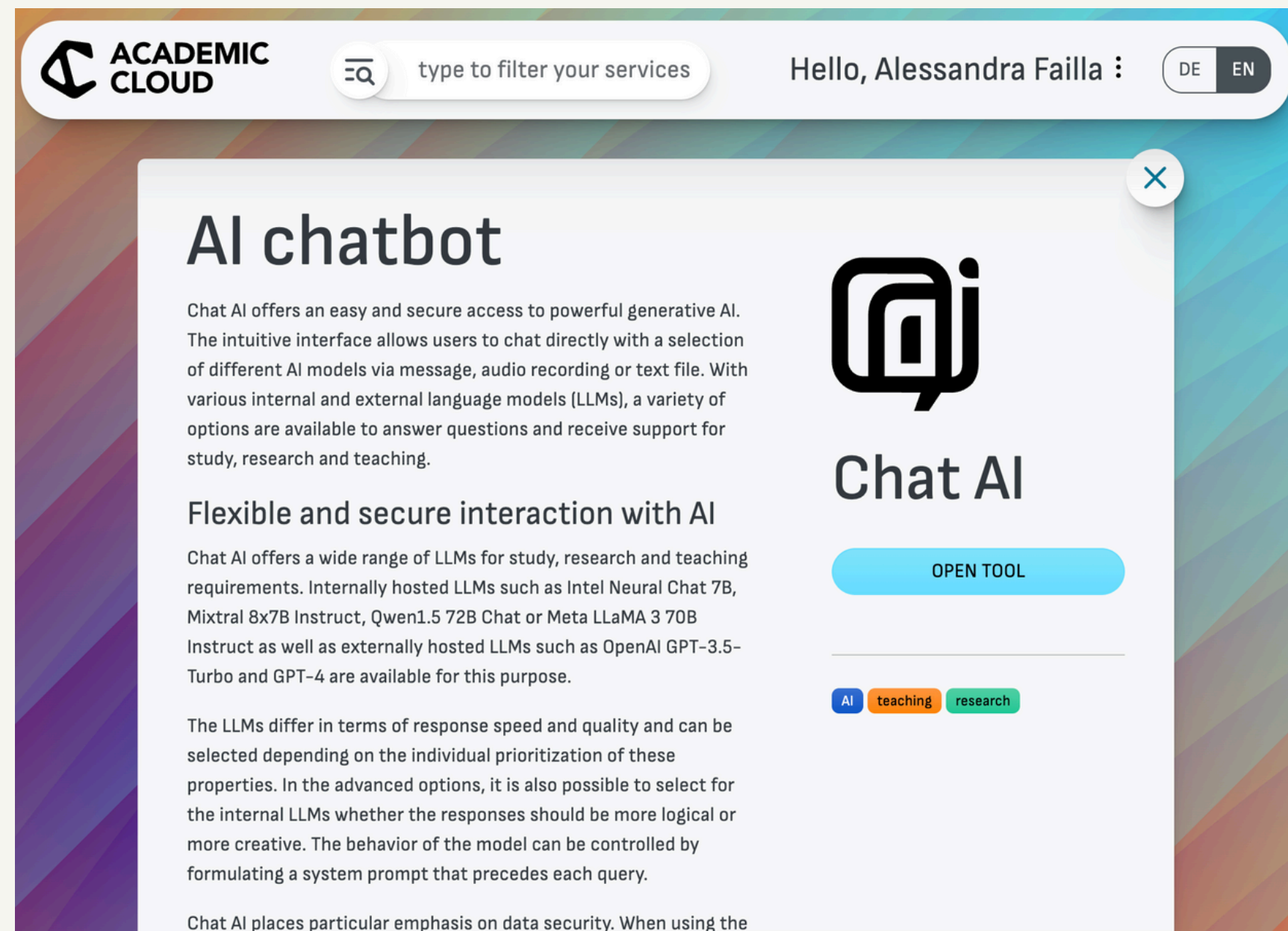


Chat-AI



AI Tools for Research

# Chat-AI on Academic Cloud



The screenshot shows the Academic Cloud interface with a header bar containing the logo, a search bar, a user greeting, and a language toggle. A modal window titled 'AI chatbot' is open, providing information about the Chat AI tool, including its features, supported models, and a button to 'OPEN TOOL'.

**ACADEMIC CLOUD** type to filter your services Hello, Alessandra Failla : DE EN

## AI chatbot

Chat AI offers an easy and secure access to powerful generative AI. The intuitive interface allows users to chat directly with a selection of different AI models via message, audio recording or text file. With various internal and external language models (LLMs), a variety of options are available to answer questions and receive support for study, research and teaching.

### Flexible and secure interaction with AI

Chat AI offers a wide range of LLMs for study, research and teaching requirements. Internally hosted LLMs such as Intel Neural Chat 7B, Mixtral 8x7B Instruct, Qwen1.5 72B Chat or Meta LLaMA 3 70B Instruct as well as externally hosted LLMs such as OpenAI GPT-3.5-Turbo and GPT-4 are available for this purpose.

The LLMs differ in terms of response speed and quality and can be selected depending on the individual prioritization of these properties. In the advanced options, it is also possible to select for the internal LLMs whether the responses should be more logical or more creative. The behavior of the model can be controlled by formulating a system prompt that precedes each query.

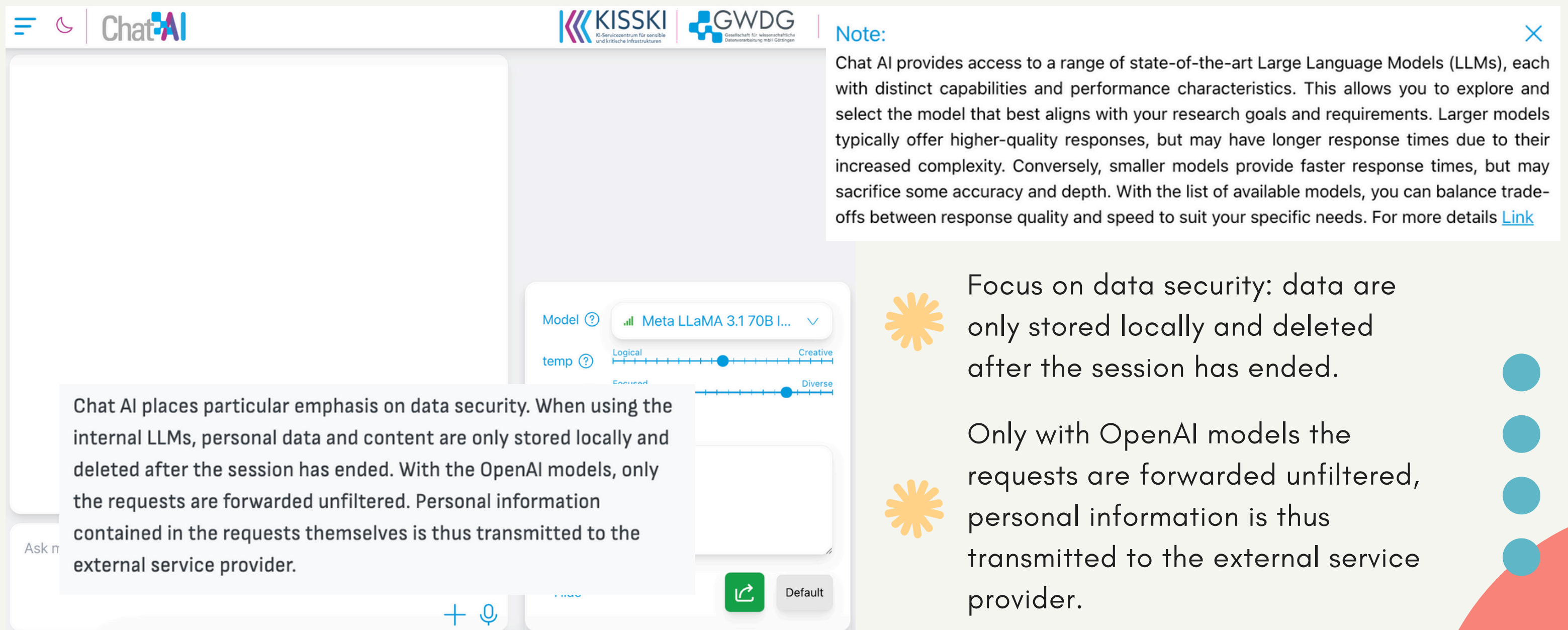
Chat AI places particular emphasis on data security. When using the

## Chat AI

OPEN TOOL

AI teaching research

# Chat-AI on Academic Cloud



The screenshot shows the Chat-AI interface on Academic Cloud. At the top, there are logos for KISSKI (KI-Servicezentrum für sensible und kritische Infrastrukturen) and GWDG (Gesellschaft für wissenschaftliche Datenverarbeitung mbH Göttingen). The interface includes a sidebar with a menu icon, a main chat area, and a settings panel. The settings panel shows the selected model as 'Meta LLaMA 3.1 70B L...' and two sliders for 'temp' (Logical to Creative) and 'diversity' (Focused to Diverse). A 'Default' button is at the bottom right of the settings panel. A text box on the left states: 'Chat AI places particular emphasis on data security. When using the internal LLMs, personal data and content are only stored locally and deleted after the session has ended. With the OpenAI models, only the requests are forwarded unfiltered. Personal information contained in the requests themselves is thus transmitted to the external service provider.'

**Note:** Chat AI provides access to a range of state-of-the-art Large Language Models (LLMs), each with distinct capabilities and performance characteristics. This allows you to explore and select the model that best aligns with your research goals and requirements. Larger models typically offer higher-quality responses, but may have longer response times due to their increased complexity. Conversely, smaller models provide faster response times, but may sacrifice some accuracy and depth. With the list of available models, you can balance trade-offs between response quality and speed to suit your specific needs. For more details [Link](#)

Chat AI places particular emphasis on data security. When using the internal LLMs, personal data and content are only stored locally and deleted after the session has ended. With the OpenAI models, only the requests are forwarded unfiltered. Personal information contained in the requests themselves is thus transmitted to the external service provider.

Model: Meta LLaMA 3.1 70B L...  
temp: Logical to Creative  
diversity: Focused to Diverse  
Default

- Focus on data security: data are only stored locally and deleted after the session has ended.
- Only with OpenAI models the requests are forwarded unfiltered, personal information is thus transmitted to the external service provider.

# AI Tools for Research (1/2)

<b>Chatbots</b>	<u><a href="#">Chat-AI on Academic Cloud</a></u>	Secure AI for study, research, and teaching. Supports multiple LLMs (e.g., Meta LLaMA 3, OpenAI GPT-4). Local and external.	Free for MPG	Internal and external LLMs
	<u><a href="#">AI2 Openscholar</a></u>	Secure AI for study, research, and teaching. Supports multiple LLMs (e.g., Meta LLaMA 3, OpenAI GPT-4). Open source and research-oriented, curated training data.	Free	OPEN
<b>AI-Powered Information Extraction</b>	<u><a href="#">Consensus</a></u>	Academic search engine using LLMs for topic- and paper-level insights. 20 searches/month free.	Freemium	Semantic Scholar Database
	<u><a href="#">ChatPDF</a></u>	Analyze PDF content, ask questions, and request summaries. Limited to 2 documents/day.	Freemium	Internal model
	<u><a href="#">Elicit</a></u>	Extracts, synthesizes, and finds papers relevant to research questions.	Freemium	Semantic Scholar Database
	<u><a href="#">Perplexity AI</a></u>	Natural language search with citation tracking, real-time retrieval, and source-backed accuracy..	Freemium	Internal search index

# AI Tools for Research (2/2)

	<b>Summarization of Academic papers</b>	<u>Semantic Scholar</u>	AI-powered research tool that uses machine learning to help users efficiently navigate and analyze scientific literature across all disciplines.	Free	Semantic Scholar Database
	<b>Citation-based Mapping</b>	<u>Research Rabbit</u>	AI-powered tool for visualizing academic literature, exploring citations, and discovering connections.	Free	Multiple databases (unspecified)
		<u>Connected Papers</u>	AI-powered tool for visualizing and exploring connections between academic research papers.	Freemium	Semantic Scholar Database

# Organizing Research

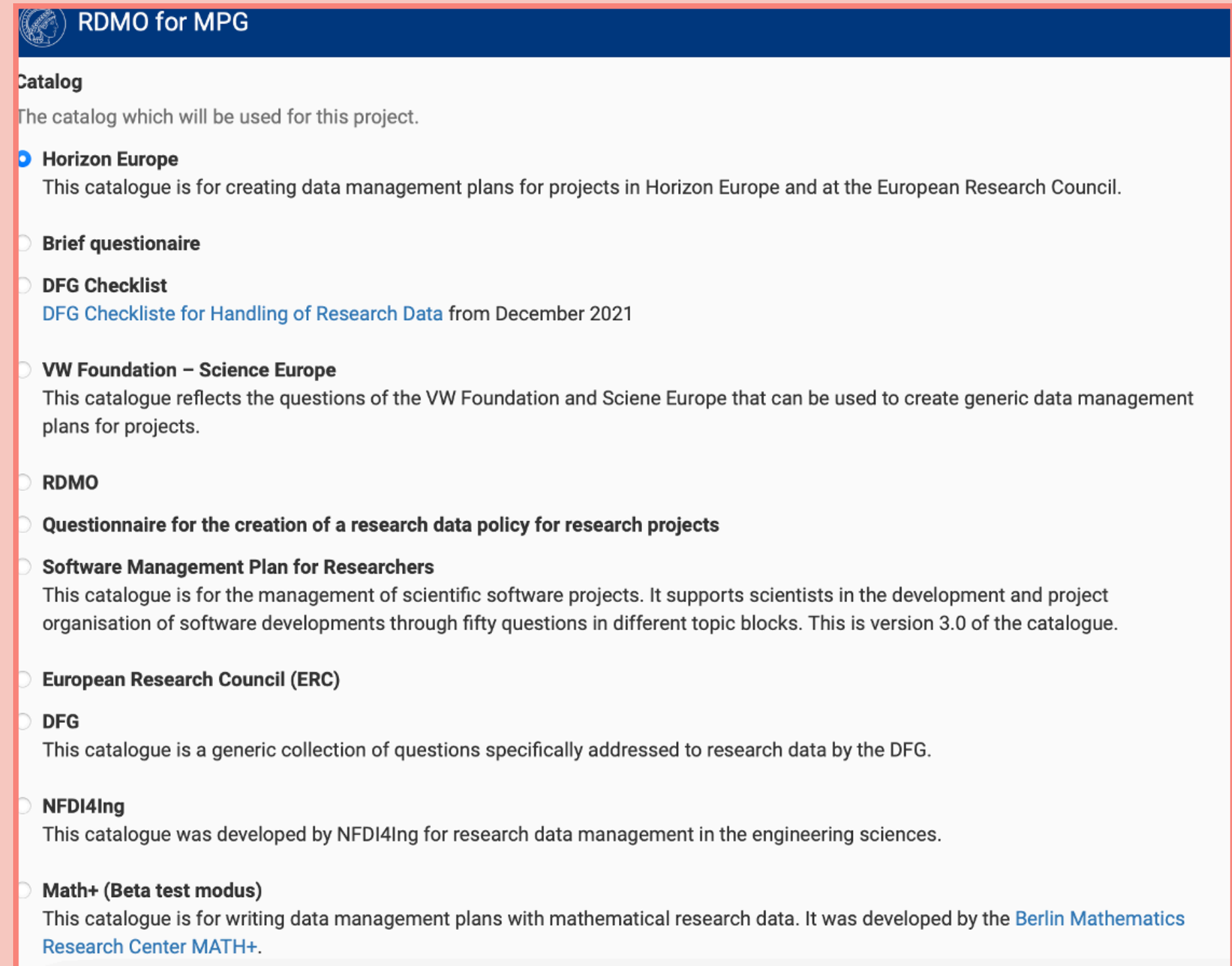
-  RDMO
-  Keeper
-  Omeka
-  Tropy
-  Open Refine



# RDMO

<https://rdmo.mpdl.mpg.de>

The "RDMO for MPG" service supports the organization and writing of data management plans for various funding organizations. Using the RDMO software, DMPs can be written more quickly and with other scientists. At the same time, the plans can be updated throughout the various project phases and possibly forwarded to funding bodies.



**RDMO for MPG**

**Catalog**  
The catalog which will be used for this project.

- ☒ **Horizon Europe**  
This catalogue is for creating data management plans for projects in Horizon Europe and at the European Research Council.
- ☐ **Brief questionnaire**
- ☐ **DFG Checklist**  
[DFG Checkliste for Handling of Research Data](#) from December 2021
- ☐ **VW Foundation – Science Europe**  
This catalogue reflects the questions of the VW Foundation and Scienc Europe that can be used to create generic data management plans for projects.
- ☐ **RDMO**
- ☐ **Questionnaire for the creation of a research data policy for research projects**
- ☐ **Software Management Plan for Researchers**  
This catalogue is for the management of scientific software projects. It supports scientists in the development and project organisation of software developments through fifty questions in different topic blocks. This is version 3.0 of the catalogue.
- ☐ **European Research Council (ERC)**
- ☐ **DFG**  
This catalogue is a generic collection of questions specifically addressed to research data by the DFG.
- ☐ **NFDI4Ing**  
This catalogue was developed by NFDI4Ing for research data management in the engineering sciences.
- ☐ **Math+ (Beta test modus)**  
This catalogue is for writing data management plans with mathematical research data. It was developed by the [Berlin Mathematics Research Center MATH+](#).

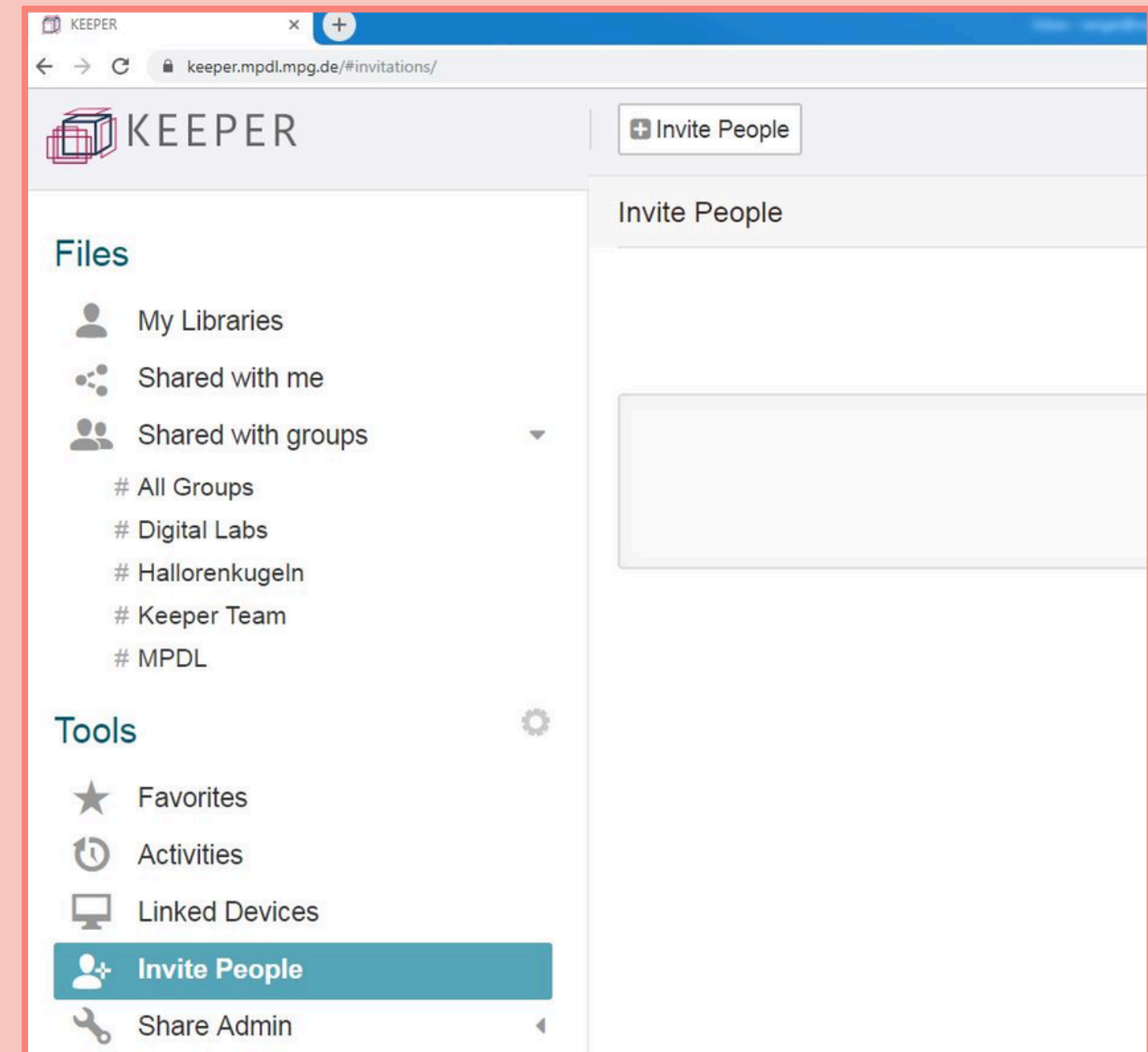
# KEEPER

<https://keeper.mpdl.mpg.de>

Keeper is a long-term data archiving service for Max Planck employees and their external collaborators. It ensures access to archived datasets for at least 10 years and provides features like metadata entry for generating a Cared Data Certificate and creating DOIs for datasets. Beyond archiving finalized data, Keeper supports syncing and sharing project files during active phases, automatically creates historical copies of local directories, and facilitates collaboration by allowing file sharing with individuals or groups. It helps organize and streamline data archiving throughout the project lifecycle.



Invite external collaborators:



More info: Keeper Knowledge Base:

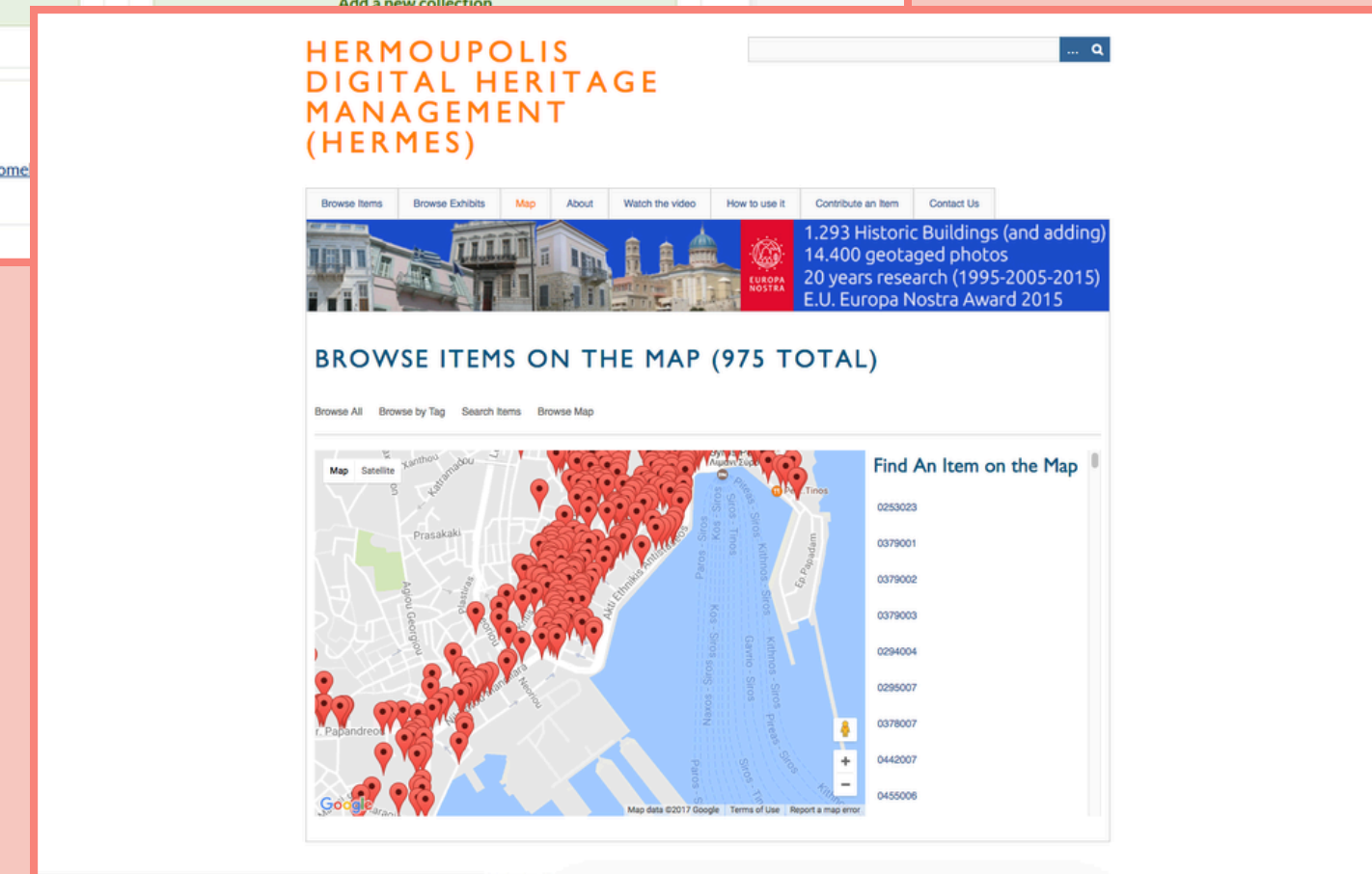
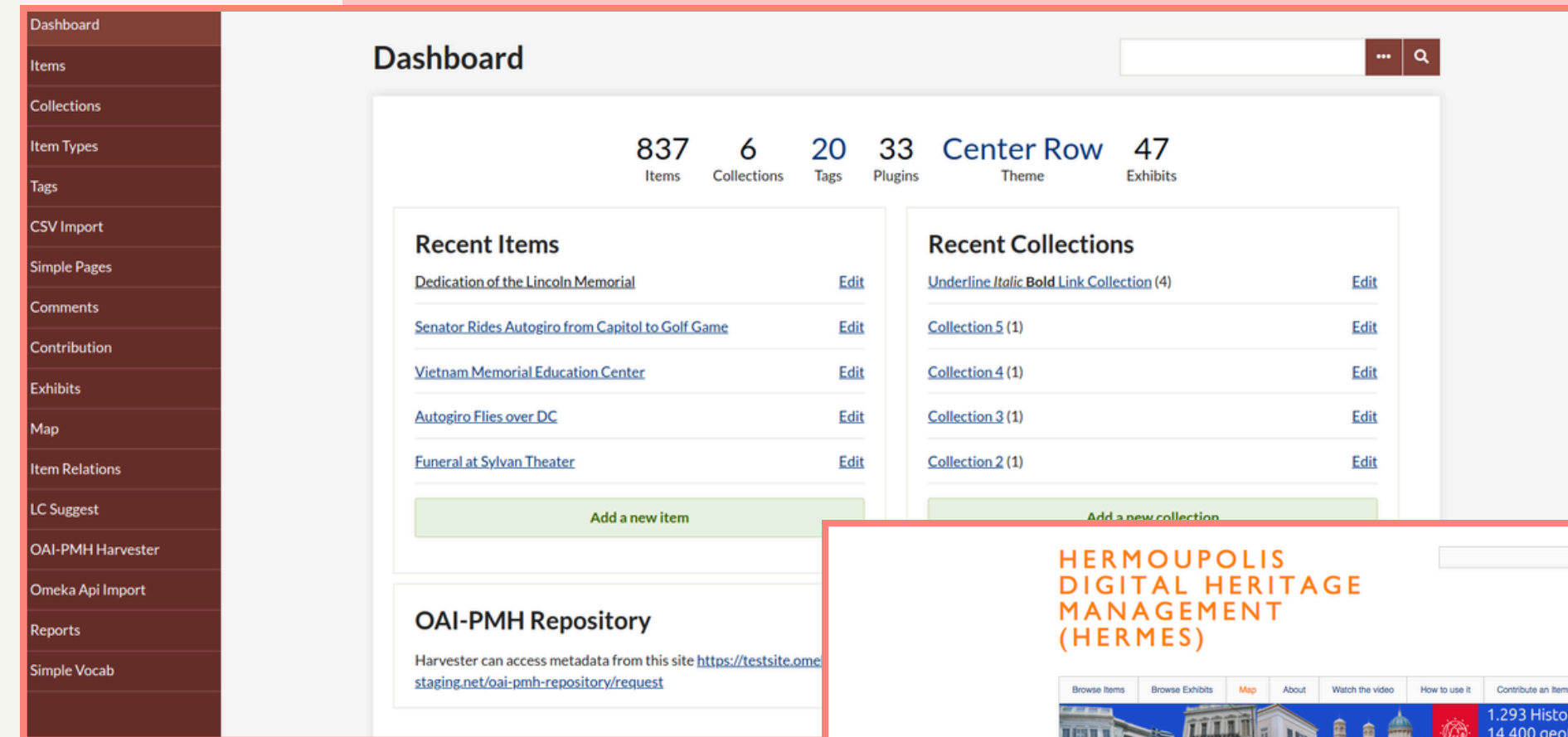
<https://mpdl.zendesk.com/hc/en-us/categories/360001234340-Keeper>



# OMEKA

<https://omeka.org>

Omeka is an open-source platform designed for managing digital collections and creating online exhibitions. It allows users to curate collections, publish metadata, and enhance functionality with plugins. It's particularly useful for museums, libraries, and scholars aiming to present research findings and collections through interactive websites, offering tools for public engagement.



Use Cases

<https://info.omeka.net/use-cases/>

# TROPY

<https://trophy.org>

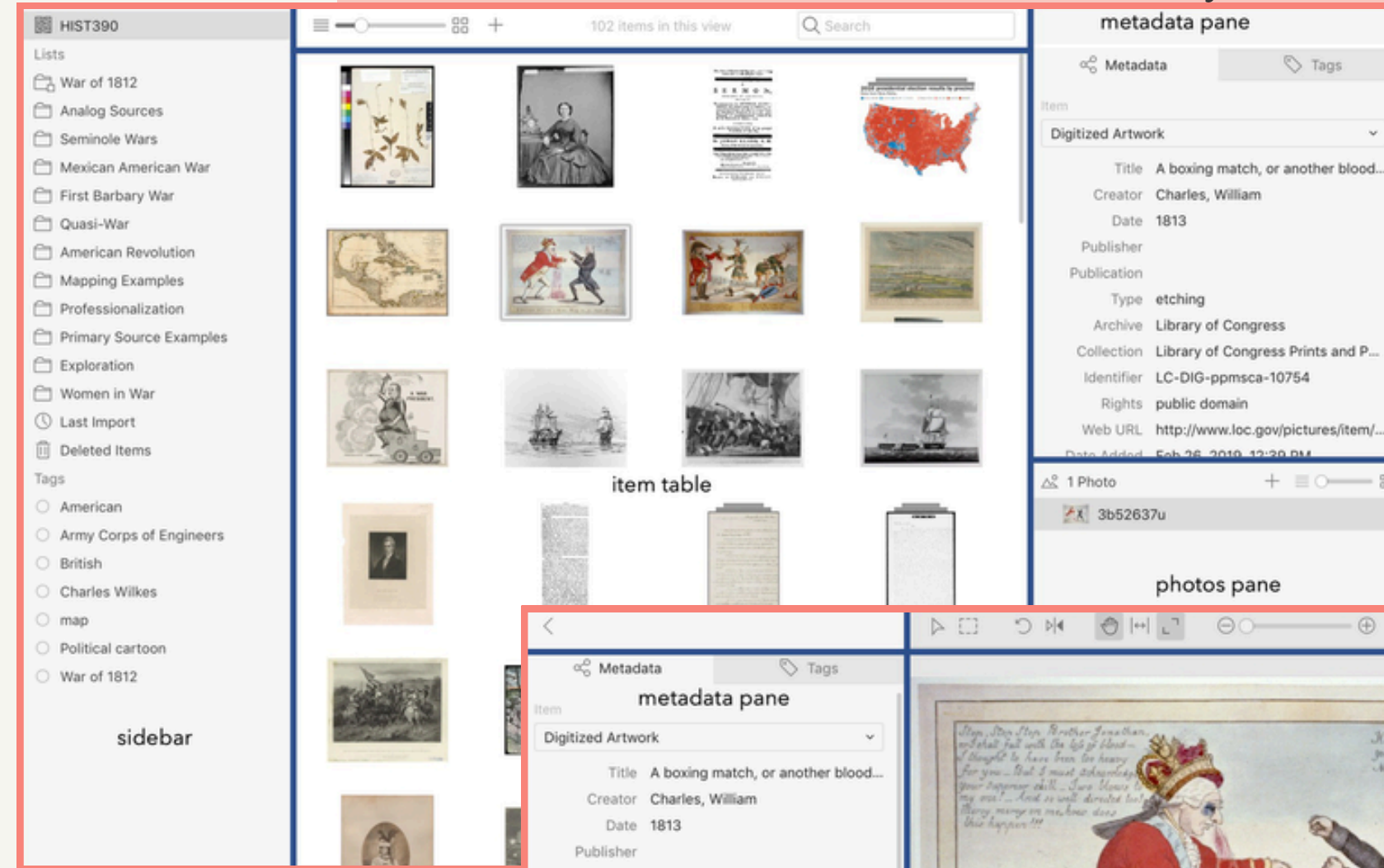
Trophy is a free and open source tool designed for organizing and describing digital photos and archival research materials. It allows researchers to tag, annotate, and manage images, making it particularly useful for those dealing with digitized historical documents or visual research data in fields like history and anthropology.



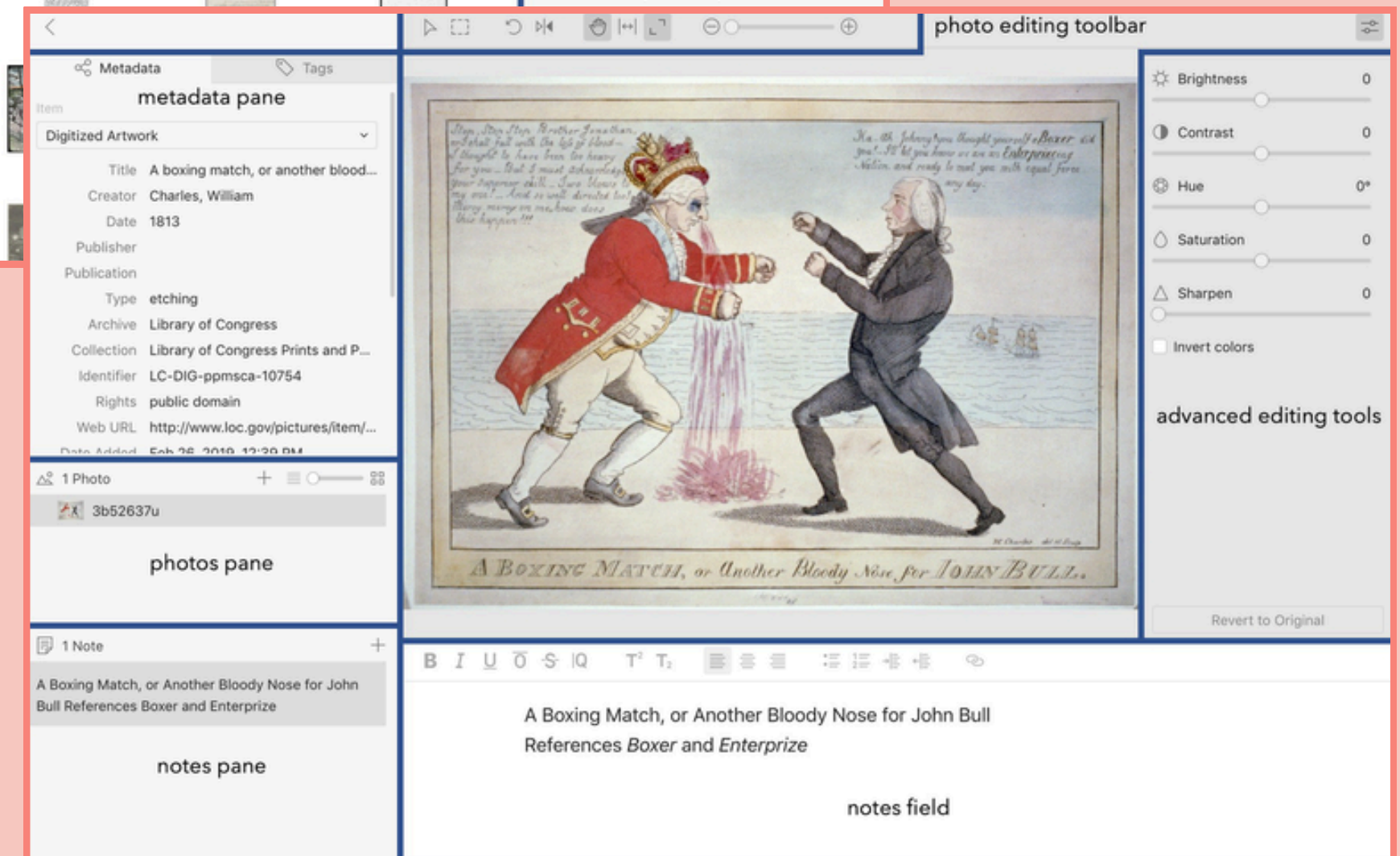
Documentation:

<https://docs.trophy.org>

Project view



Item view



# OPEN REFINE

<https://openrefine.org/>

OpenRefine is a powerful, open source software which visualizes and manipulates large quantities of data all at once. OpenRefine looks like a spreadsheet, but operates like a database, allowing for increased discovery capabilities beyond programs like Microsoft Excel. OpenRefine can be used to explore, clean, and link data on a large scale. Functions include:

- Data Normalization
- Column Reorganization
- Faceting and Clustering
- Tracking Operations
- Exporting Data

55 rows

Show as: **rows** records Show: 5 10 25 50 rows Sort ▼

▼ All	▼ Author	▼ Title	▼ Country
★	24. A. S. Byatt	Possession	United Kingdom
★	39. Alan Hollinghurst	The Line of Beauty	
★	18. Anita Brookner	Hotel du Lac	
★	53. Anna Burns	Milkman	
★	42. Anne Enright	The Gathering	
★	43. Aravind Adiga	The White Tiger	India
★	32. Arundhati Roy	The God of Small Things	India
★	27. Barry Unsworth	Sacred Hunger	United Kingdom
★	25. Ben Okri	The Famished Road	Nigeria
★	55. Bernardine Evaristo	Girl, Woman, Other	United Kingdom
★	2. Bernice Rubens	The Elected Member	United Kingdom
★	10. David Storey	Saville	United Kingdom
★	38. DBC Pierre	Vernon God Little	Australia
★	48. Eleanor Catton	The Luminaries	New Zealand
★	52. George Saunders	Lincoln in the Bardo	United States of America
★	31. Graham Swift	Last Orders	United Kingdom
★	44. Hilary Mantel	Wolf Hall	United Kingdom
★	47. Hilary Mantel	Bring Up the Bodies	United Kingdom
★	45. Howard Jacobson	The Finkler Question	United Kingdom
★	33. Ian McEwan	Amsterdam	United Kingdom
★	12. Iris Murdoch	The Sea, the Sea	Ireland
★	3. J. G. Farrell	Troubles	United Kingdom
★	6. J. G. Farrell	The Siege of Krishnapur	United Kingdom
★	17. J. M. Coetzee	Life & Times of Michael K	South Africa

Remove sort  
Reorder rows permanently  
By Author  
By Publication year  
Sort...  
Reverse  
Remove sort



# Publishing Data

 Edmond

 Zenodo

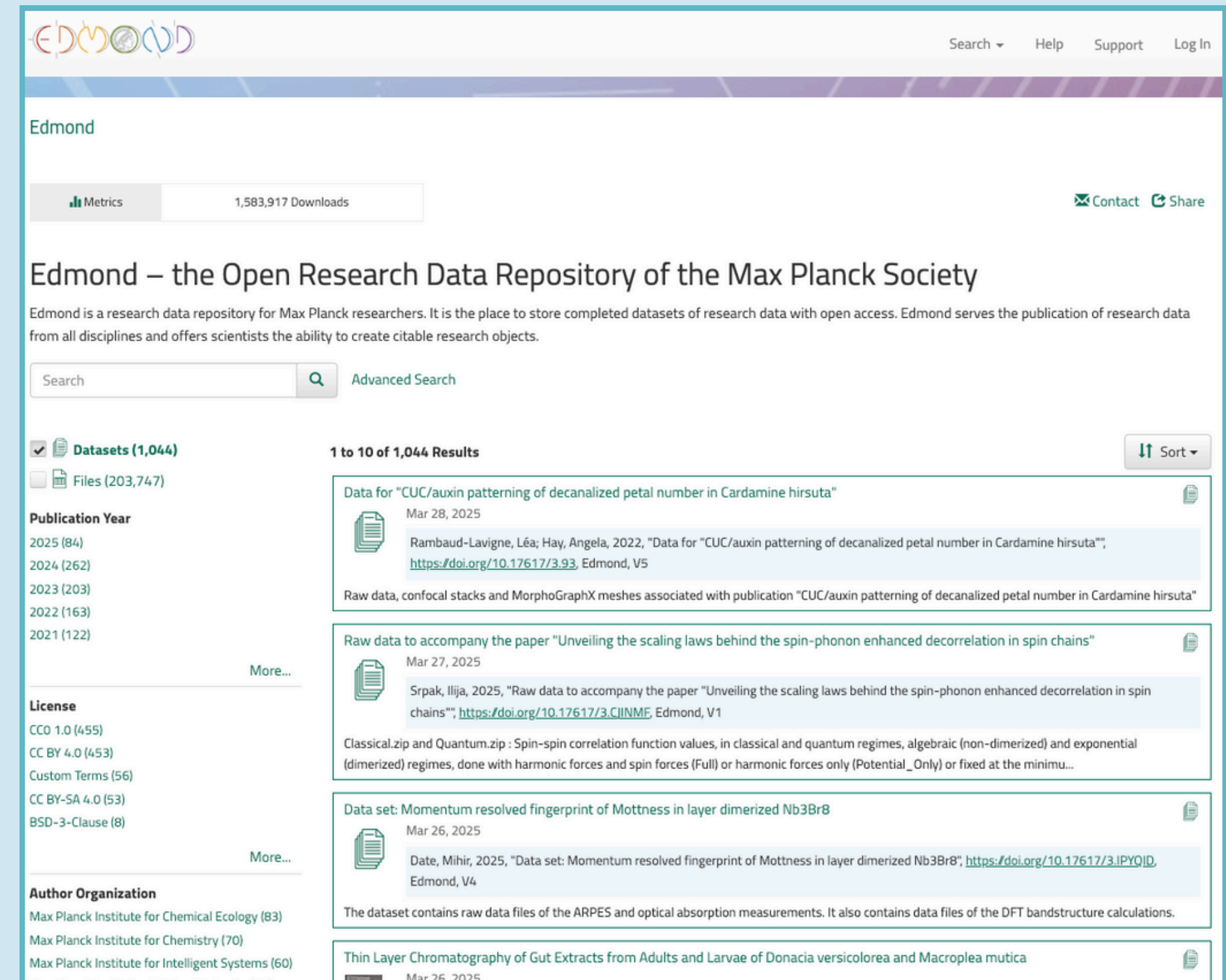
 Figshare

 Re3data

# EDMOND

<https://edmond.mpg.de>

Edmond is the Open Research Data Repository free of charge to all members of the Max Planck Society. It serves the publication of research data from all disciplines and offers scientists the ability to create citable research objects. It enables secure preservation: provision, describing, documentation, linking, publishing and archiving of all kinds of data. Edmond supports standardized metadata profiles, and finally allows to gain an insight into the work of scientists at the Max Planck Institutes.



The screenshot shows the Edmond website interface. At the top, there is a navigation bar with the Edmond logo, a search bar, and links for Help, Support, and Log In. Below the navigation bar, the main header displays the Edmond logo and a metrics bar showing 1,583,917 Downloads. A 'Contact' button is also visible.

The main content area is titled 'Edmond – the Open Research Data Repository of the Max Planck Society'. It includes a brief description: 'Edmond is a research data repository for Max Planck researchers. It is the place to store completed datasets of research data with open access. Edmond serves the publication of research data from all disciplines and offers scientists the ability to create citable research objects.'

Below the description, there is a search bar and a link to 'Advanced Search'. The left sidebar contains filters for 'Datasets (1,044)' and 'Files (203,747)', a 'Publication Year' list (2025 (84), 2024 (262), 2023 (203), 2022 (163), 2021 (122)), a 'License' list (CC0 1.0 (455), CC BY 4.0 (453), Custom Terms (56), CC BY-SA 4.0 (53), BSD-3-Clause (8)), and an 'Author Organization' list (Max Planck Institute for Chemical Ecology (83), Max Planck Institute for Chemistry (70), Max Planck Institute for Intelligent Systems (60)).

The main results area shows '1 to 10 of 1,044 Results'. The first three results are:

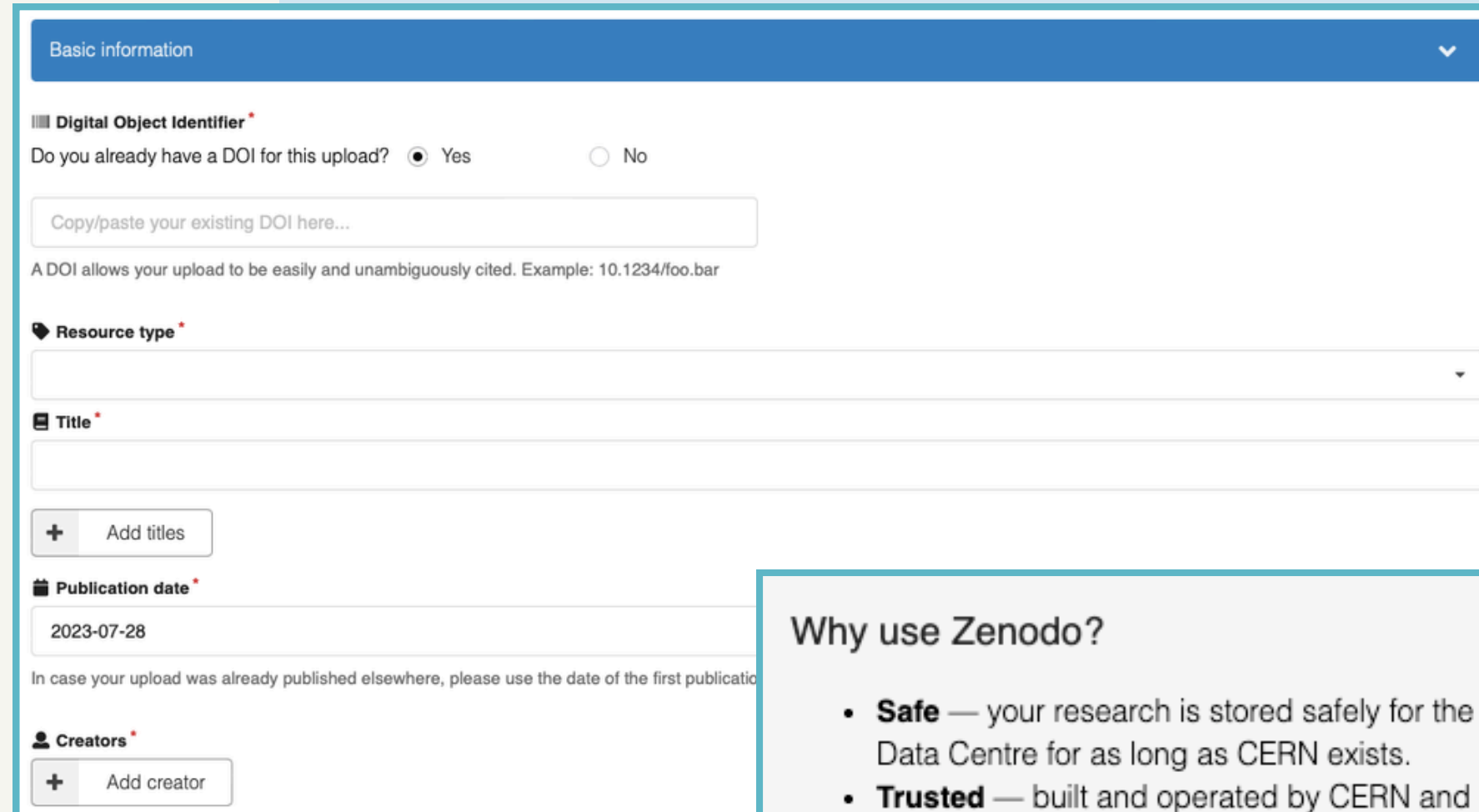
- Data for "CUC/auxin patterning of decanalized petal number in Cardamine hirsuta"** (Mar 28, 2025). Description: 'Raw data, confocal stacks and MorphoGraphX meshes associated with publication "CUC/auxin patterning of decanalized petal number in Cardamine hirsuta"'. DOI: <https://doi.org/10.17617/3.93>.
- Raw data to accompany the paper "Unveiling the scaling laws behind the spin-phonon enhanced decorrelation in spin chains"** (Mar 27, 2025). Description: 'Classical.zip and Quantum.zip : Spin-spin correlation function values, in classical and quantum regimes, algebraic (non-dimerized) and exponential (dimerized) regimes, done with harmonic forces and spin forces (Full) or harmonic forces only (Potential\_Only) or fixed at the minimu...'. DOI: <https://doi.org/10.17617/3.CIINME>.
- Data set: Momentum resolved fingerprint of Motttness in layer dimerized Nb3Br8** (Mar 26, 2025). Description: 'The dataset contains raw data files of the ARPES and optical absorption measurements. It also contains data files of the DFT bandstructure calculations.' DOI: <https://doi.org/10.17617/3.IPYQID>.

The fourth result is partially visible: 'Thin Layer Chromatography of Gut Extracts from Adults and Larvae of Donacia versicolorea and Macrolea mutica' (Mar 26, 2025).

# ZENODO

<https://zenodo.org>

Zenodo is a general-purpose open repository that allows researchers to deposit research papers, datasets, research software, reports, and any other research related digital artefacts.



The screenshot shows the 'Basic information' section of the Zenodo upload form. It includes fields for a Digital Object Identifier (DOI), Resource type, Title, Publication date, and Creators. The DOI field has a text input and a note explaining its purpose. The Resource type is a dropdown menu. The Title field has a text input and an 'Add titles' button. The Publication date field has a date input (2023-07-28) and a note about using the first publication date. The Creators field has a text input and an 'Add creator' button.

Basic information

**Digital Object Identifier**

Do you already have a DOI for this upload? ☒ Yes ☐ No

Copy/paste your existing DOI here...

A DOI allows your upload to be easily and unambiguously cited. Example: 10.1234/foo.bar

**Resource type**

**Title**

+ Add titles

**Publication date**

2023-07-28

In case your upload was already published elsewhere, please use the date of the first publication

**Creators**

+ Add creator


## Why use Zenodo?

- **Safe** — your research is stored safely for the future in CERN's Data Centre for as long as CERN exists.
- **Trusted** — built and operated by CERN and OpenAIRE to ensure that everyone can join in Open Science.
- **Citeable** — every upload is assigned a Digital Object Identifier (DOI), to make them citable and trackable.
- **No waiting time** — Uploads are made available online as soon as you hit publish, and your DOI is registered within seconds.
- **Open or closed** — Share e.g. anonymized clinical trial data with only medical professionals via our restricted access mode.
- **Versioning** — Easily update your dataset with our versioning feature.
- **GitHub integration** — Easily preserve your GitHub repository in Zenodo.
- **Usage statistics** — All uploads display standards compliant usage statistics

# FIGSHARE

<https://figshare.com>


Figshare is a provider of open research repository infrastructure that helps organizations and researchers to share, showcase and manage their research outputs in a discoverable, citable, reportable and transparent way.



[Browse](#)

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Creative arts and writing

 [+ Follow](#)

Art theory

Visual cultures

Art history, theory and criticism not elsewhere classified

Creative writing (incl. scriptwriting)

Music cognition

Music composition and improvisation

Music education

Music performance

Musicology and ethnomusicology

Dance and dance studies

Drama, theatre and performance studies

Performing arts not elsewhere classified

Cinema studies

Computer gaming and animation

Digital and electronic media art

Interactive media

Screen media

Screen and digital media not elsewhere classified

Crafts

Fine arts

Performance art


Photography, video and lens-based practice



Visual arts not elsewhere classified


Other creative arts and writing not elsewhere classified

Art history

All

[SEARCH](#) 


sort by: Posted date  



[Raphael: analysis on the Goldfinch Madonna \(1\).pdf](#)


Preprint posted on 2025-03-15


[Arielle Sanz](#)



[Addition information - Exhibition poster](#)

Poster posted on 2025-03-11 in University of Salford


[Angela Tait](#) 



[ART AND PHILOSOPHY: THE AESTHETIC REFLECTION OF EXISTENCE](#)

Conference contribution posted on 2025-03-09


[Begüm Yıldırım](#)



[Appendix of Figures](#)

Figure posted on 2025-03-07

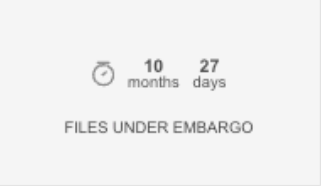
[Robmarie Lopez](#)



[Post-minimalism and the experience of the spectator](#)

Thesis posted on 2025-03-04 in Cardiff Metropolitan University


[Crisiant Williams](#)



[Between Art and Empire - Foundational Figures \(Data\)](#)


Dataset posted on 2025-02-28

Sean Cham



[Elegía del Barroco escenográfico. La "escenacuartro" de los Galliari en La...](#)

Journal contribution posted on 2025-02-25



[La escenografía teatral contemporánea a través de la 37 FERIA INTERNACIONAL DE TEATRO](#)

Journal contribution posted on 2025-02-23



# RE3DATA

<https://www.re3data.org/>

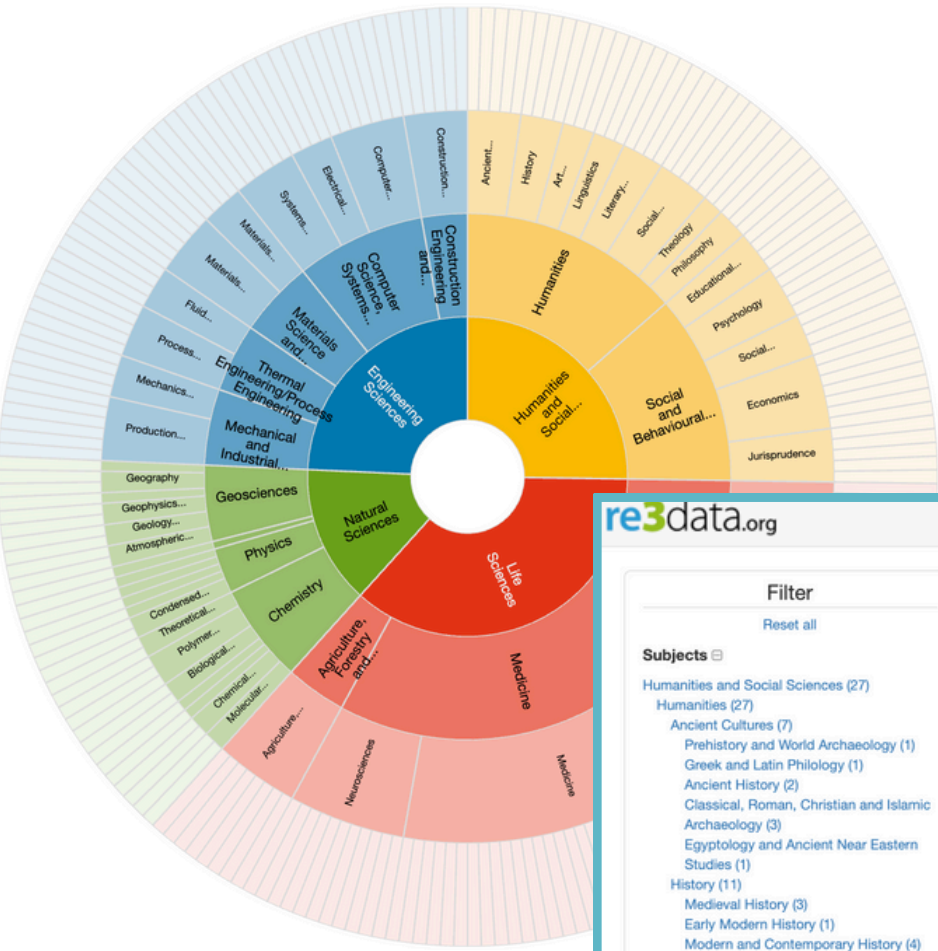
Re3data is a global registry of research data repositories that covers research data repositories from different academic disciplines. It includes repositories that enable permanent storage of and access to data sets to researchers, funding bodies, publishers, and scholarly institutions. re3data promotes a culture of sharing, increased access and better visibility of research data. The registry has gone live in autumn 2012 and has been funded by the German Research Foundation (DFG).

## Browse by subject

Graphical

Text

click to zoom into subjects or to select a bottommost subject in the hierarchy as filter for the re3data search page  
shift + click on a top subject to select it as filter



re3data.org

Search Browse Suggest Resources Contact

Search...

Search

Search help

Sort by

Found 27 result(s)

OpenHeritage 3D

Subject(s)

Repository type(s)

Provider type(s)

Country

As 3D and reality capture strategies for heritage documentation become more widespread and available, there has emerged a growing need to assist with guiding and facilitating accessibility to data, while maintaining scientific rigor, cultural and ethical sensitivity, discoverability, and archival standards. In response to these areas of need, The Open Heritage 3D Alliance (OHA) has developed as an advisory group governing the Open Heritage 3D initiative. This collaborative advisory group are among some of the earliest adopters of 3D heritage documentation technologies, and offer first-hand guidance for best practices in data management, sharing, and dissemination approaches for 3D cultural heritage projects. The founding members of the OHA, consist of experts and organizational leaders from CyArk, Historic Environment Scotland, and the University of South Florida Libraries, who together have significant repositories of legacy and on-going 3D research and documentation projects. These groups offer unique insight into not only the best practices for 3D data capture and sharing, but also have come together around concerns dealing with standards, formats, approach, ethics, and archive commitment. Together, the OHA has begun the journey to provide open access to cultural heritage 3D data, while maintaining integrity, security, and standards relating to discoverable dissemination. Together, the OHA will work to provide democratized access to primary heritage 3D data submitted from donors and organizations, and will help to facilitate an operation platform, archive, and organization of resources into the future.

Artstor

Subject(s)

Repository type(s)

Provider type(s)

Country

<<<!!!<<< The Artstor website was retired on August 1, 2024 You can get started with Artstor on JSTOR <https://www.jstor.org/images> >>>!!!>>>





# Thank you!

dh@khi.fi.it

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