



Julia Hintersteiner, MA BA

Digital Humanities · Medieval Studies · Digital Editions

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RESEARCH INTERESTS

- Word sense disambiguation and semantic annotation of historical language data
- Digital editions of medieval manuscripts, text-image relations
- AI-assisted indexing of iconographic motifs
- TEI-XML data modelling, data migration and research data infrastructure
- AI-assisted methods in the Digital Humanities and their critical reflection

ACADEMIC POSITIONS

Jun 2026 – May 2027	Senior Scientist (project staff) Middle High German Conceptual Database (MHDBDB), University of Salzburg
since Mar 2026	Software Developer with a focus on Digital Humanities Research & Data Services Department, Austrian National Library Project “Peter Handke: Notizbücher. Digitale Edition”
Jan 2026 – Apr 2026	Project lead CLARIAH-AT project “WB-DEA meets MHDBDB”, University of Salzburg • Integration of the Wenceslas Bible edition data into the MHDBDB data structure • Annotation and AI-assisted data preparation • Development of a reusable pipeline for ingesting further texts into the MHDBDB
Nov 2025 – Jul 2026	Project staff “ÖSZD-ExilBriefe: Stefan und Lotte Zweigs Briefe aus dem Exil”, Literaturarchiv Salzburg • Digitisation and metadata capture in TEI-XML
Oct 2024 – Dec 2025	Senior Scientist (project staff) Middle High German Conceptual Database (MHDBDB), University of Salzburg • Complete migration of the database from RDF to TEI-only; coordination and evaluation of the platform relaunch • Preparation and curation of the entire TEI data set • Design and execution of user acceptance testing for the new MHDBDB interface • Project management and coordination (“MHDBDB goes AI”), third-party funding acquisition • Data maintenance and evaluation in the projects “Users First” and “ParzivAI”
Oct 2024 – Oct 2025	University Assistant (parental leave cover), Older German Literature Department of German Studies, University of Salzburg • Research within the digital edition of the Wenceslas Bible (image annotation, Python scripting) • Organisation of the annual conference of the Mediävistenverband • Teaching support; member of the department's PR team

Nov 2023 – Sep 2024	Senior Scientist (parental leave cover) Middle High German Conceptual Database (MHDBDB), University of Salzburg • TEI documentation, XPath queries, XSLT scripting • Database evaluation and quality assurance • Contribution to grant proposals
Sep 2022 – Nov 2023	Research Associate Project “Die Wenzelsbibel – Digitale Edition und Analyse”, University of Salzburg, in cooperation with the Austrian National Library • Development of image annotation workflows for medieval manuscripts • Iconographic and semantic analysis of text-image relations • Development of controlled vocabularies • Evaluation of computer-assisted image analysis (e.g. object detection)
Oct 2019 – Jan 2021	Student Assistant Department of Art History, University of Salzburg • Editorial work and maintenance of the Prometheus image database • Support in conference organisation and teaching

PROJECTS

since Nov 2023	Middle High German Conceptual Database (MHDBDB) Senior Scientist · Department of German Studies, University of Salzburg · University of Salzburg; sub-projects funded by CLARIAH-AT (BMFWF) mhdbdb.plus.ac.at/
Aug 2025 – Dec 2026	WB meets MHDBDB: The Wenceslas Bible as a pilot model for interoperable editions Principal investigator · University of Salzburg · CLARIAH-AT small-scale projects call 2025 (BMFWF) clariah.at/de/projects/wb-meets-mhdbdb/
Feb 2022 – Oct 2024	The Wenceslas Bible – Digital Edition and Analysis Research associate · Department of German Studies, University of Salzburg · State of Salzburg (project phase 2022–2024) edition.onb.ac.at/context:wenbibel
Oct 2025 – Sep 2028	Peter Handke Notizbücher. Digitale Edition Software developer · Austrian National Library · FWF (lead agency) and DFG edition.onb.ac.at/context:hnb
Jan 2025 – Jun 2026	ÖSZD-ExilBriefe: Stefan and Lotte Zweig's letters from exile Project staff · Literaturarchiv Salzburg, University of Salzburg stefanzweig.digital/

EDUCATION

Feb 2022 – Feb 2025	Master's programme in Digital Humanities (not completed) University of Graz
until Nov 2023	MA in German Studies (focus on Medieval Studies) University of Graz Master's thesis: „Text-Bild-Relationen in der Wenzelsbibel“
until Feb 2022	BA in Art History University of Salzburg
Sep 2021 – Feb 2022	Erasmus exchange semester Utrecht University, Netherlands

until Jan 2020	BA in German Studies University of Salzburg
Jun 2016	Matura (school leaving examination) with distinction Europagymnasium Baumgartenberg (Upper Austria)

PUBLICATIONS

Journal articles (peer-reviewed)

- 2026 **Transferring AI-Based Iconclass Classification Across Image Traditions: A RAG Pipeline for the Wenzelsbibel**
In: Histories 6 (2026), no. 1, art. 17
With Drew B. Thomas
DOI: [10.3390/histories6010017](https://doi.org/10.3390/histories6010017)

Conference proceedings

- 2026 **Lessons Learned eines der ältesten DH-Projekte der Welt**
In: Book of Abstracts – DHd 2026 “Nicht nur Text, nicht nur Daten”, University of Vienna, 23–27 February 2026
With Katharina Zeppezauer-Wachauer, Alan Lena van Beek, Christian Steiner
DOI: [10.5281/zenodo.18591948](https://doi.org/10.5281/zenodo.18591948)
- 2025 **Face Detection in Historic Manuscripts. A Case Study on the Wenceslas Bible**
In: 4th International Workshop on Fine Art Pattern Extraction and Recognition (FAPER 2025), ICIAP 2025 Workshop Proceedings
With Heinz Hofbauer, Manfred Kern, Andreas Uhl
- 2025 **Wenceslas or Not. Face Comparison on Frana's Wenceslas Depiction in the Wenceslas Bible**
In: 5th International Workshop on Pattern Recognition for Cultural Heritage (PatReCH 2025), ICIAP 2025 Workshop Proceedings
With Heinz Hofbauer, Manfred Kern, Andreas Uhl

Digital editions, software and data

- 2026 **Mittelhochdeutsche Begriffsdatenbank (MHDBDB) – TEI-XML Repository**
Software, 10 June 2026
With Katharina Zeppezauer-Wachauer, Klaus M. Schmidt, Alan Lena van Beek, Christian Steiner
DOI: [10.5281/zenodo.20627657](https://doi.org/10.5281/zenodo.20627657)
- since 2024 **Wenzelsbibel Digital. Die Wenzelsbibel – Digitale Edition und Analyse**
Cooperation project of the Department of German Studies, University of Salzburg, and the Austrian National Library
With Manfred Kern, Linda Beutel-Thurow, Oleksii Sapov-Erlinger, Martina Bürgermeister, Viktoria Spadinger
<https://edition.onb.ac.at/context:wenbibel>

Blog posts

- 2026 **MHDBDB Next: Forschen ohne Datenbankserver**
Digital Humanities an der Universität Salzburg (Hypotheses), 9 July 2026
With Katharina Zeppezauer-Wachauer, Alan van Beek
DOI: [10.58079/16jkg](https://doi.org/10.58079/16jkg)

2025 **Poc, the Black Knight. Wie voreingenommen sind LLMs bei mittelalterlicher Literatur?**
Digital Humanities an der Universität Salzburg (Hypotheses), 6 November 2025
With Alan Lena van Beek
DOI: [10.58079/153my](https://doi.org/10.58079/153my)

2024 **Von der Datenpflege zur Schnittstellenentwicklung: Eine Evaluation des Datenkolosses MHDBDB**
Digital Humanities an der Universität Salzburg (Hypotheses)
With Michael Göggelmann, Alan Lena van Beek, Katharina Zeppezauer-Wachauer
DOI: [10.58079/12p9n](https://doi.org/10.58079/12p9n)

Further records

9 Jul 2026 **LLMs in the Service of Medieval Text Integration: WB meets MHDBDB**
PRESENTATION
Hintersteiner, Julia
DOI: [10.5281/zenodo.21277766](https://doi.org/10.5281/zenodo.21277766)

17 Mar 2026 **From Miniature to Metadata: AI-Assisted Iconography for Medieval Manuscripts**
PRESENTATION
Thomas, Drew; Hintersteiner, Julia
DOI: [10.5281/zenodo.19065710](https://doi.org/10.5281/zenodo.19065710)

20 Feb 2026 **From Miniature to Metadata: Transferring AI-Assisted Iconography to Medieval Manuscripts**
CONFERENCE PAPER
Hintersteiner, Julia; Thomas, Drew B.
DOI: [10.5281/zenodo.18696403](https://doi.org/10.5281/zenodo.18696403)

5 Feb 2026 **Iconclass Annotations and LLM-Generated Descriptions for Selected Wenzelsbibel Miniatures**
DATASET
Thomas, Drew B.; Hintersteiner, Julia
DOI: [10.5281/zenodo.19454449](https://doi.org/10.5281/zenodo.19454449)

May 2025 **User Acceptance Testing in den Digitalen Geisteswissenschaften**
OTHER
Alan Lena van Beek; Julia Hintersteiner; Katharina Zeppezauer-Wachauer

1 Jan 2025 **Wie annotiert man eigentlich den Pegasus?**
BLOG POST
Zeppezauer-Wachauer, Katharina; van Beek, Alan; Hintersteiner, Julia
DOI: [10.58079/13pru](https://doi.org/10.58079/13pru)

TALKS AND POSTERS

Feb 2026 **Lessons Learned eines der ältesten DH-Projekte der Welt**
TALK DHd 2026, University of Vienna
With Katharina Zeppezauer-Wachauer, Alan Lena van Beek, Christian Steiner

Jan 2026 **From Punch Cards to Prompt Engineering: The MHDBDB and the Future of Semantic Annotation with LLMs**
TALK ACDH Lecture 12.1, Austrian Centre for Digital Humanities (ÖAW) in cooperation with the University of Vienna
DOI: [10.5281/zenodo.18412225](https://doi.org/10.5281/zenodo.18412225)

Sep 2025	Die Wenzelsbibel zwischen Codex und Code (TALK) Interdisziplinäre Handschriftenforschung im digitalen Zeitalter in Österreich, Austrian National Library, Vienna
Jul 2025	From Users to Co-Creators. Learning from and with the Middle High German Conceptual Database (TALK) International Medieval Congress, Leeds DOI: 10.5281/zenodo.16737492
Mar 2025	Wenzelsbibel Digital: Völlig Losgelöst (POSTER) DHd 2025, Bielefeld DOI: 10.5281/zenodo.14944537
Feb 2025	Gib mir Tiernamen! Das Namenssystem der MHDBDB (TALK) Conference of the Mediävistenverband, Salzburg
Feb 2025	Mit Linked Open Data-Verfahren zur Standardisierung von Benennungen in der Wenzelsbibel und in der Vulgata (TALK) Conference of the Mediävistenverband, Salzburg
Sep 2024	Digital Sustainability: Relaunch of the MHDBDB (POSTER) CLARIAH Summer School: From Archive to Algorithm
Apr 2024	Text and Image Encoding in the Digital Edition Wenceslas Bible Digital (GUEST LECTURE) Seminar Digital Humanities, University of Salzburg
Oct 2023	Interoperability of Text and Image in the Digital Edition of the Wenceslas Bible (POSTER) TEI Conference 2023, Paderborn University DOI: 10.17613/gw2h-e162

TEACHING AND WORKSHOPS

Sep 2025	Bias Detection in der historischen Textanalyse: Prompting, Perspektiven und semantische Präzision in der AI-Readiness der MHDBDB (WORKSHOP CONTRIBUTION) FORGE (Research Data in the Humanities), Rostock DOI: 10.5281/zenodo.17178192github.com/Middle-High-German-Conceptual-Database/Bias-Detection-Workshop
Sep 2024	Introduction to Text Modelling with TEI (WORKSHOP) CLARIAH Summer School: From Archive to Algorithm

ORGANISATION AND SERVICE

Co-organisation of the workshop “Connecting Editions”, Austrian National Library, September 2026
 Organisation of the CLARIAH hackathon “Von historischen Daten zu KI”, October 2025
dhsalzburg.hypotheses.org/6295
 Co-organisation of the 20th early-career conference of the Mediävistenverband, Salzburg, February 2025
 Participant in the DHd mentoring programme

TECHNICAL SKILLS

Markup languages and standards
 TEI-XML, XPath, XSLT, RDF/SPARQL, SKOS, OntoLex-Lemon
Programming and tools
 Python, Git/GitHub, Docker, LaTeX, Overleaf

LANGUAGES

German	native
English	C1
French	B1
Spanish	B1

Infrastructure and repositories

GAMS/Fedora

AI-assisted methods

LLM-based annotation pipelines, Prompt documentation, Human-in-the-loop workflows

Latin

Dutch

Last updated: 19 Oct 2026 · juliahin.github.io/en/cv/