

SARAH A. LANG

EDUCATION

- 2018–2021 | **Doctor of Philosophy (Digital Humanities), Dr. phil.**
Supervisors: Prof. Georg Vogeler (Digital Humanities, Graz) & Prof. Martin Mulsow (History of Science, Erfurt/Gotha). With distinction. Title: Decoding alchemical *Decknamen* digitally. Polysemantic Annotation and Machine Reasoning on the example of the corpus of iatrochymist Michael Maier (1568–1622) – German original title: Alchemische *Decknamen* digital entschlüsseln. Polysemantische Annotation und Machine Reasoning am Beispiel des Korpus des Iatrochymikers Michael Maier (1568–1622)
- 2014 | ERASMUS Freemover, Université Montpellier III (Paul Valéry)
- 2011–2017 | Undergraduate and Master’s Level Studies, Universität Graz
- 2002–2011 | Theodor-Heuss-Gymnasium Aalen, Abitur (Ø1,4)

DEGREES

- 2021 | **Digital Humanities**
DR. PHIL. · Universität Graz
- 2020 | **Magistra philosophiae (History–Ancient Greek)**
MAG. PHIL. · Universität Graz
- 2019 | **Philosophy**
M.A. · Universität Graz
- 2017 | **Religious Studies**
M.A. · Universität Graz
- 2017 | **Magistra philosophiae (Latin–French)**
MAG. PHIL. · Universität Graz
- 2016 | **Archaeology**
B.A. · Universität Graz

EMPLOYMENT

- 2025– Head of Digital Humanities, Max Planck Institute for the History of Science, Berlin
 - 2026 Guest Professor in Digital Humanities (W3, Lehrstuhl Patrick Sahle), Universität Wuppertal
 - 2021–2025 PostDoc, Department of Digital Humanities, Universität Graz
 - 2018–2020 Project assistant, Dean’s Office Grant, Zentrum für Informationsmodellierung, Uni Graz
 - 2017–2019 PraeDoc, project: ‘Grazer Repositorium für Antike Fabeln’ (= gams.uni-graz.at/graf)
 - 2016–2017 Student assistant, ‘Moralische Wochenschriften/Spectators’ (= gams.uni-graz.at/mws)
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PRIZES & AWARDS

- 2021 *Bader Award for the History of Science and Technology*, Austrian Academy of Sciences (ÖAW)
 - 2018 *Certificate of recognition (Anerkennungsurkunde)* for the master’s thesis on M. Maier, Dr. Maria Schaumayer Stiftung
 - 2018 *New Scholar Award*, Society for the History of Alchemy and Chemistry (SHAC)
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FELLOWSHIPS

- 2024 NFDI4Memory FAIR Data Fellowship, Herzog August Bibliothek Wolfenbüttel (1 month), Project: *A Computer Vision Dataset for Alchemical Illustrations* (dataset)
 - 2023 Erasmus Staff Training Exchange, Computational Humanities, Universität Leipzig (2 weeks), Project: *Towards a Computational History of Alchemy*
 - 2023 Future Talent Guest Stay, Technische Universität Darmstadt (1 week), Project: *Beyond Data Feminism*
 - 2021 Beckman Fellow, Science History Institute Philadelphia (Chemical Heritage Foundation; 3 months), Project: *Alchemical encipherment and practices of secrecy*
 - 2021 Research Fellow, Boltzmann Institut for Neo-Latin Studies (LBI) Innsbruck (3 months), Project: *Translating Michael Maier’s Viatorium (1618)*
 - 2020 Digital Humanities Fellow, Leibniz Institut für Europäische Geschichte (IEG) Mainz (6 months), Project: *Michael Maiers chymische Weltlandschaft*
 - 2020 “Karriereprogramm für Wissenschaftlerinnen – Kompetenzen, Strategien und Netzwerke 2020”, Universität Graz
 - 2019 Fellow, Herzog-August-Bibliothek Wolfenbüttel (2 months), Project: *Obscurum vocabulum Chymiae?*
 - 2017 German Historical Institute Paris (1 month), Project: Annotating 1162 regests CEI-XML for integration in Monsterium (data publication).
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GRANTS & AWARDS

- 2023 Combined Commission on the History of Chemistry and Molecular Sciences (CHCMS) and Society for the History of Alchemy and Chemistry (SHAC) ICHC₁₃ Award (1038€)
- 2021 *Bader Award for the History of Science and Technology*, Österreichische Akademie der Wissenschaften (ÖAW, 9.000\$)
- 2019 Conference Funding Grant for the International Conference ‘Alchemical Laboratories: Practices, Texts, Material Legacies’, University of Graz (1.800€)
- 2019 *Subject Development Award* for the organisation of the conference ‘Alchemical Laboratories’ (Vienna, 19–21 February 2020), Society for the History of Alchemy and Chemistry (SHAC, 450€)
- 2019 Scholarship, Rolf and Ursula Schneider Foundation for the Promotion of Historical Research (Rolf und Ursula Schneider-Stiftung zur Förderung der Geschichtswissenschaften, 600€)
- 2019 SHAC Travel Grant, Society for the History of Alchemy and Chemistry (SHAC, 350€)
- 2019 HSS Travel Grant for the 2019 Annual Meeting, History of Science Society (HSS, 180€)
- 2018–20 Project Assistant (2 years, 75% position), Faculty of Humanities, University of Graz (€77,970). Competitive faculty award, 1,25% success rate.
- 2018 Certificate of Recognition for the Master’s thesis on M. Maier, Dr. Maria Schaumayer Foundation
- 2018 Publication Grant for the Master’s thesis on M. Maier, University of Graz (1.800€)
- 2018 *New Scholar Award*, Society for the History of Alchemy and Chemistry (SHAC, 350€)
- 2017 Mobility Grant for an Internship at the German Historical Institute Paris, Max Weber Foundation (300€)
- 2017 Faculty Grant from the Faculty of Catholic Theology for the Master’s thesis on M. Maier, University of Graz (800€)
- 2011–16 Merit Scholarship (5×), Faculty of Humanities, University of Graz (5000€)

PROJECTS & THIRD-PARTY FUNDING

- 2024 *Machine Learning for Digital Scholarly Editions* funded by CLARIAH (8000€), co-PIs: Martina Scholger, Bernhard Geiger & Roman Bleier.
 - 2023 *Computer Vision for Digital Humanists*, funded by CLARIAH (9.016€), Co-PI: Sean Winslow.
 - 2022 *Digitizing the Materiality of the Pre-Modern Book*, gefördert durch CLARIAH (14.571€), Co-PI: Sean Winslow.
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ASSOCIATED MEMBERSHIPS

- 2022–2024 *Associate Member*, DFG-Netzwerk ‘Offenes Mittelalter’, Coordinators: Luise Borek, Katharina Zeppezauer-Wachauer
- 2018–2024 *Affiliated researcher (Classical Cryptography)*, Austrian Centre for Intelligence, Propaganda and Security Studies (ACIPSS)
- 2018–2026 Member, *Netzwerk Alchemie*, Forschungszentrum Gotha der Universität Erfurt (Prof. Martin Mulsow)
- 2018–2021 Associated member, International doctoral programme ‘Resonante Weltbeziehungen in sozio-religiösen Praktiken in Antike und Gegenwart’
- 2018–2021 Associated member, Doctoral programme ‘Antike Kulturen des Mittelmeerraumes (AKME)’
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EVENTS ORGANIZED

- 2026 Workshop *Novel Approaches to the Digital and Computational History of Science*, Max Planck Institute for the History of Science (MPIWG), Berlin, 11.09.2026.
- 2025–2026 Organiser of the Digital Humanities Brown Bag Lunch lecture series, Max Planck Institute for the History of Science (MPIWG), Berlin.
- 2025 CLARIAH-AT Summer School *Machine Learning for Digital Scholarly Editions*, co-organizers: Martina Scholger, Roman Bleier, Bernhard Geiger. 08.–12.09.2025, Graz.
- 2024–2025 Co-organiser of the Lunchtime Lecture Series (WS24/25), Dept. of DH, Universität Graz.
- 2023 Winter School *Computer Vision for Digital Humanists*, co-organizer: Sean Winslow. 08.–10.02.2023, Graz.
- 2022 Winter School *Digitizing the Materiality of the Premodern Book*, co-organizers: Sean Winslow & Megan Piorko. 23.–26.11.2022, Graz.
- 2022 SHAC postgraduate workshop *Chemistry Outside the Laboratory*, co-organizers: Alison McManus, Sarah Hijmans & Silvia Pérez-Criado. 13.–14.05.2022, Online Event.
- 2021 SHAC postgraduate workshop *Secrets of Matter, Matters of Secrecy*, co-organizers: Alison McManus & Sarah Hijmans. Online Event, 3.–4.6.2021.
- 2020 International conference *Alchemistische Labore. Praktiken, Texte, materielle Hinterlassenschaften / Alchemical Laboratories. Practices, texts, material relics*, co-organizers: Elisabeth Klecker (Neulatein, Universität Wien), Patrick Fiska (Österreichische Akademie der Wissenschaften, Institut für Kulturgeschichte der Antike) Univ.-Doz. Dr. Werner Soukup (Uni Wien) & Michael Fröstl. Wien, 19.–21.02.2020. <https://alchemietagung.wordpress.com/>.
- 2019 Eleftheria Chatziargyriou, Clément Besnier: *Using the Classical Language Toolkit* (Workshop). Graz, 11.06.2019.
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COMMISSIONS OF TRUST

- 2027 International ADHO DH2027 Programme Committee member
- 2026 International ADHO DH2026 Programme Committee member
- 2026–2027 “Culture and Computing” 2027 (part of the HCI-international conference) program board
- 2026–2027 NFDI4Culture Steering Committee (DHd representative, together with Ulrike Wuttke)
- 2025 Computational Humanities Research 2025 Awards Committee
- 2023–2027 DHd stipends committee (DHd2023, DHd2024, DHd2025, DHd2026, DHd2027)
- 2025– *Advisory Board*, “Inquiry-Orientated Dialogues (*InqDialog*, Scientific Discourse in Medieval Vernacular Texts),” Volkswagenstiftung, PI: Racha Kirakosian.
- 2025 *Member*, Expert:innenrunde digitaler Wandel in den Geschichtswissenschaften (NFDI4Memory).
- 2023 DH2023 ADHO Awards Committee (DHd representative).
- 2022–2025 *Advisory Board*, SISTE VIATOR. Latein auf Stein 2.o. Lateinische Inschriften für digitales und außerschulisches Lernen (LIDAL), PIs: Ursula Gärtner, Lukas Spielhofer

REVIEWING

Conferences:

- **DHd:** DHd22 (Kulturen des digitalen Gedächtnisses). DHd23 (Open Humanities, Open Culture); DHd24 (DH Quo Vadis); DHd25 (Under Construction); DHd 2026 (Not Only Text, Not Only Data), DHd 2027 (Mind the gap! – Wissen, Unsicherheit und Verantwortung).
- **DH:** DH2023 (Collaboration as Opportunity). DH2024 (Reinvention and Responsibility). DH2025 (Accessibility and Citizenship). DH2026 (Engagement).
- **CHR:** CHR 2024, 2025 & 2027 (*Programme Committee*).

Journals:

- *Ambix* (2020–),
- *Acta Conventus Neolatini* (ACN) and *Journal of Open Humanities Data* (JOHD, 2023–),
- *Journal of the Text Encoding Initiative* (jTEI) (2024–)
- *Digital Scholarship in the Humanities* (DSH) and *Sudhoffs Archiv* (2025–).
- Scientific advisory board member for *Zeitschrift für digitale Geisteswissenschaften* (ZfdG, 2025).
- *Correspondences* and *History Compass* (2026–).

Grants:

- Eurizon Fellowship Programme: Remote Research Grants for Ukrainian Researchers (2023).
- Schmidt Sciences’ *Humanities and AI Virtual Institute* (HAVI, 2025).
- Deutsche Forschungsgemeinschaft (DFG, 2026).

(Book/Resource) Reviews for:

Early Science and Medicine, Isis, Renaissance Quarterly, TUGboat, JIPSS and *RIDE*.

MEMBERSHIPS & ROLES IN ACADEMIC SOCIETIES

<i>since 2022</i>	Society for Neo-Latin Studies (SNLS) & Internat. Association for Neo-Latin Studies (IANLS)
<i>since 2021</i>	Renaissance Society of America (RSA). Roles: DH representative (2025–2028).
<i>since 2021</i>	Digital Humanities im deutschsprachigen Raum (DHd). Roles: Co-opted member of the board of directors (2022–2023), then: Elected member of the board of directors, responsible for the support of graduate and early career members, stipends (2023–2027). Head of the Mentoring Taskforce appointed to develop a DHd early mentoring programme (2022). Organizer of the DHd Mentoring programme (2023–2025, 2026–2027). Head Convenor of the Critical Digital Humanities working group (formerly AG Empowerment, https://empowerdh.github.io/ & https://dig-hum.de/ag-empowerment , 2021–2027). Temporary scientific advisory board member for <i>Zeitschrift für digitale Geisteswissenschaften</i> (ZfdG, 2025). Member of the OCR working group (2024–2025).
<i>since 2019</i>	History of Science Society (HSS)
<i>since 2018</i>	Gesellschaft für Wissenschaftsgeschichte (GEWIGE) / GWMT
<i>since 2018</i>	Society for the History of Alchemy and Chemistry (SHAC). Roles: <i>Student Ambassador</i> (2020–2022), Web Content Editor (2022–2026) & Observer in Council (2022–2024), Full Council Member (2025–).
<i>2017–2024</i>	Austrian Center for Intelligence, Propaganda and Security Studies (ACIPSS). Roles: Social Media Editor (2018), <i>Book Reviews Editor</i> (2019) responsible for JIPSS journal issues 2019/I & 2019/II, 2. Schriftführerin (2019–2020).

SERVICE TO PROFESSION

<i>2024</i>	Berufungskommission (Mittelbau), Tenure Track-Professur ‘Digitale historische Linguistik’, University of Graz
<i>2021–2025</i>	Curriculumskommission (Mittelbau), Masterstudium ‘Digitale Geisteswissenschaften’, Zentrum für Informationsmodellierung, Centre for Information Modelling, University of Graz
<i>2021–2024</i>	Erasmus Coordinator at Department Centre for Information Modelling, University of Graz
<i>2021</i>	Gewählte Studierendenvertreterin für das Doktorat der Geisteswissenschaften, Österreichische HochschülerInnenschaft der Universität Graz (SS 2021)
<i>2020</i>	Studentisches Mitglied in der Habilitationskommission Yvonne Völkl, Universität Graz.
<i>2019–2021</i>	Berufungskommission ‘Digital Humanities’, Studentisches Mitglied, ZIM, Universität Graz
<i>2019–2021</i>	Studentische Fakultätsvertreterin, Entsendegemeinschaft Altertumswissenschaften, ÖH Uni Graz (WS 2019–SS 2021)
<i>2016–2022</i>	Curriculumskommission für das Masterstudium ‘Digitale Geisteswissenschaften’, Zentrum für Informationsmodellierung, Universität Graz (Studierendenkurie)
<i>2013–2015</i>	Gewählte Studierendenvertreterin der Klassischen Philologie, Österreichische HochschülerInnenschaft der Universität Graz (WS 2013–SS 2015). Mitarbeit an den Zeitschriften Quodlibet und GeWitter; Organisation einer Studierendentagung (08.06.–11.06.2014).
<i>2013–2015</i>	Studentische Fakultätsvertreterin für Altertumswissenschaften (Alte Geschichte, Klassische Archäologie, Klassische Philologie), ÖH Uni Graz (WS 2013–SS 2015)

PROFESSIONAL DEVELOPMENT WORKSHOPS

TEACHING

- 2024 Claudia Eilles-Matthiessen: *Supervision zum Early-Career-Mentoring für Mentor:innen: Strategien und Methoden* (2h), DHd Mentoring Programme (06.12.2024)
- 2024 Claudia Eilles-Matthiessen: *Mentoring als Methode zur Förderung von Early Career Scholars* (2h), DHd Mentoring Programme (20.09.2024)
- 2024 Gitte Wichmann-Hansen: *Supervision*, Universität Graz (08.–09.02.2024)
- 2022 Teaching Skills Development, Universität Graz (01.12.2022)
- 2021 Teaching the History of the Book (H-90a), Rare Book School (2.–6.8. 2021)
- 2021 *Teaching with Archives*, Science History Institute (17.03.2021)
- 2019 *Hochschuldidaktische Ausbildung*, Universität Graz (26.–27.02.2019)
- 2018 *Workshop 'Beruf Universitätslehrerin'*, Universität Graz (29.01. 2018)

SOFT SKILLS & LEADERSHIP

- 2026 Jens Engelke: *Kompetenzmanagement Teamverantwortung (Baustein 3)*, (14h), MPG Planck Academy (29.01.–30.01.2026)
- 2026 Verena Braun: *Presenting and Communicating Effectively on Camera*, Training (2h), Max Planck Institute for the History of Science (05.06.2026)
- 2026 Stephanie Hood: *Science Communication Training: Writing an Attention-Grabbing 3-Minute Elevator Pitch for a Publication Using Narrative Storytelling*, Training (2h), Max Planck Institute for the History of Science (19.05.2026)
- 2026 Dagmar Schäfer: *Grant Writing Master Class in the History of Science*, Skills Lab Session (2h), Max Planck Institute for the History of Science (13.02.2026)
- 2025 Jörg Bergmann: *Gesunde Führung*, Workshop (2 × 6h), Max Planck Institute for the History of Science (25.09.2025; 01.12.2025)
- 2025 Jens Engelke: *Kompetenzmanagement Teamverantwortung (Baustein 2)*, (14h), MPG Planck Academy (18.09.–19.09.2025)
- 2025 Alexander Schiller: *Laterale Führung* (12h), MPG Planck Academy (16.09.–17.09.2025)
- 2025 Jens Engelke: *Kompetenzmanagement Teamverantwortung (Baustein 1)*, (14h), MPG Planck Academy (26.06.–27.06.2025)
- 2025 Philipp Schäfer: *Klassisches Projektmanagement* (12h), MPG Planck Academy (16.06.–18.06.2025)
- 2024 Margarete Hubrath: *Berufungstraining*, Universität Graz (30–31.01.2024)
- 2023 *Project Management*, Universität Graz University of Graz (03. & 16.05.2023)
- 2023 *Career Training*, Universität Graz (06.03.2023)
- 2021 *Publication strategies*, Arqus (European University Alliance), 14.12.2021
- 2021 *Efficient social media use for networking*, Arqus (European University Alliance), 09.11.2021
- 2021 *Goal setting & career planning: mentoring-specific and in general*, Arqus (European University Alliance), 05.10.2021
- 2021 *Writing for a Public Audience*, Science History Institute (19.05.2021)
- 2021 *Public Programming: How to Talk to A General Audience*, Science History Institute (17.02.2021)
- 2021 *Arqus Online Mentoring Programme*, Universität Graz
- 2020 *Nachwuchsförderprogramme der Österreichischen Akademie der Wissenschaften*, Universität Graz (09.03.2020)

- 2020 *Karriereprogramm für Wissenschaftlerinnen – Kompetenzen, Strategien und Netzwerke*, Universität Graz
- 2019 *Sexismus und sexuelle Belästigung im Hochschulkontext*, Universität Graz (09.06.2019)
- 2019 *Digital Publishing*, Universität Graz (2. April 2019)
- 2019 *Secret Rules of Academia*, Universität Graz (4. April 2019)
- 2019 *Research Funding and Proposal Writing*, Universität Graz (25. März 2019)
- 2018 *Strategische Karriereplanung für PraeDocs*, Universität Graz (16.–17.04. 2018)

TECHNOLOGY

- 2024 Daniel Stökl Ben Ezra: *Maintaining eScriptorium Instances*, École Pratique des Hautes Études (23.5.2024)
- 2021 *Introduction to computer vision for Renaissance book and art historians*, Renaissance Society of America (RSA, 19.03.2021)
- 2019 *Integrated Spectral Reflectance Transformation Imaging (Spectral RTI) Workshop*, Universität Graz (04.07.–05.07.2019)
- 2018 *Einführung in R*, Methodenkompetenz-Zentrum, Universität Graz (16.–17.2. 2018)
- 2018 Textmining Winterschool, ZIM Graz (7.–9.2. 2018)
- 2017 Transkribus-Workshop, Universität Graz (28.04. 2017)
- 2017 Ediarum-Workshop, Universität Graz (25.04. 2017)
- 2016 GAMS & Cirilo-Workshop, Universität Graz (15.11. 2016)

LANGUAGES

German: native; English: C2; French: C2; Latin: C2.

Basic skills or familiarity with Ancient and Modern Greek, Swedish, Portuguese, Italian, Spanish, Arabic and Chinese.

COMPUTER SKILLS

Familiarity with various supervised and unsupervised machine learning techniques, including computer vision (YOLO, SAM3, VLMs) and language processing (LLMs, LatinBERT), familiarity with explainable AI. Methods for text-reuse detection in historical recipe families including phylogenetic trees. Stylometry.

XML & Standards (TEI, LIDO, SKOS, CIDOC-CRM, OWL, RDF(S), etc.). XSLT & XPath. RDF(S) & SPARQL. SQL. HTML & CSS; JavaScript. Python. Object Oriented Programming in C++ & Java; Linux Bash; Git. L^AT_EX. R.

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|-----------------|-----------|--|
| DH certificates | 2017–2019 | Kulturmanagement / Cultural Heritage Management, Uni Graz |
| | 2016–2017 | DH Certificate ‘Information Modelling in the Humanities’, Uni Graz |

Presentation of Teaching & Lecturing Activities

An overview of my teaching portfolio, including course abstracts, is available at <https://sarahalang.com/teaching/>.

Over the course of my academic career, I have taught more than twenty-five university courses (excluding workshops and summer schools) at the University of Graz, the University of Vienna, the University of Passau, and the University of Wuppertal.¹ In the 2026/27 academic year, I will teach at Freie Universität Berlin and Humboldt-Universität zu Berlin. My upcoming courses focus on topics such as data gaps, critical data studies, AI ethics, and Critical Computational Humanities. Across my teaching, I seek to provide students not only with practical technical skills but also with the ability to critically evaluate the methods, infrastructures, and datasets on which digital research depends.

I have also contributed to innovative forms of digital teaching and learning. These activities include the development of video-based learning materials on digital scholarly editing, rare books, and computer vision for Digital Humanists. Beyond formal university teaching, I regularly organise workshops, training activities, and professional development opportunities for researchers and students. My long-running blog *LaTeX Ninja'ing and the Digital Humanities* has likewise contributed to knowledge transfer within the community, providing tutorials and teaching materials that have been widely used beyond the classroom. One such tutorial subsequently formed the basis of the invited workshop *Beyond TEI: Digital Editions with XPath and XSLT for the Web and in L^AT_EX* at Harvard University. The table included here provides a complete overview of my teaching activities.

TEACHING

2027	<i>Kritische Aspekte digitaler Technologien</i> , Fachbereich Archaeoinformatics, FU Berlin (SoSe 2027).
2026	<i>AI and Data Ethics. From Data (Feminism/Gaps/Work) to Critical (Archival/Data/Code) Studies</i> , Fachbereich Digital History, Humboldt-Universität zu Berlin (WS 2026/2027).
2026	<i>Okkultes Wissen und digitale Methoden (Quellenübung)</i> , Bergische Universität Wuppertal.
2026	Lecture <i>Okkultes Wissen und Wissensorganisation von Alchemie bis AI</i> , Bergische Universität Wuppertal.
2024	<i>Planung, Umsetzung, Evaluierung von Digital Humanities Projekten (Projektmanagement)</i> (WS 2024/25). With Christopher Pollin, Universität Graz..
2022–2024	<i>Digital Scholarly Editing</i> (WS 2022/23, WS 2023/24, SS 2024), Universität Graz.
2022–2024	<i>Information-Modelling I</i> (WS 2022/23, WS 2023/24, WS 2024/25), Universität Graz.
2024	<i>Machine Learning for Digital Scholarly Editions</i> (SS 2024, WS 2024/35), Universität Graz. With Martina Scholger.
2023	<i>Einführung in Computer Vision</i> (SS 2023), Universität Graz.
2022–2024	<i>Projektseminar</i> (Masterseminar, SS 2022, SS 2023, SS 2024), Universität Graz. With Georg Vogeler, Chiara Zuanni, Martina Scholger & Luise Borek.
2022	<i>Grundfragen der Digitalen Geisteswissenschaften</i> (Masterseminar, SS 2022), Universität Graz. With Chiara Zuanni.
2021–2024	<i>Grundlagen der Informationsmodellierung</i> (SS 2021, WS 2021/22, SS 2022, SS 2023, SS 2024), Universität Graz.

¹As I have not yet completed my habilitation, my formal supervision experience is currently limited to the supervision of one master's thesis and the supervision of students within project-based seminars. However, in my current role as Head of Digital Humanities at the Max Planck Institute for the History of Science, I supervise a range of projects and manage the associated staff. I look forward to bringing these experiences to future opportunities for the supervision of students and early-career researchers.

2021	<i>Digitale Edition</i> (WS 2021/22), Universität Graz. With Georg Vogeler.
2021	<i>Grundlagen der Digitalen Geisteswissenschaften</i> (Vorlesung, WS 2021/22), Universität Graz. With Georg Vogeler.
2021	<i>X-Technologien I</i> (WS 2021/22), Universität Graz.
2021	<i>Textkodierung und Textanalyse mit TEI</i> (WS 2021/22), Universität Wien. With Christopher Pollin.
2021	<i>Grundlagen der Informationsmodellierung (Datenmodellierung)</i> , Universität Graz.
2020	<i>Textkodierung und Textanalyse mit TEI</i> (WS 2020/21), Universität Wien. With Roman Bleier, Hans Clausen & Christopher Pollin.
2019, 2022	<i>Quantitative Textanalyse</i> (2x, SS 2019, SS 2022), Universität Passau.
2018–2019	<i>Annotation und Erschließung</i> (2x, WS 2018 & WS 2019), Universität Passau.

WORKSHOPS GIVEN

2023	<i>Introduction to the course, Machine Learning for Computer Vision. An Introduction to terms & concepts</i> & (with Suzana Sagadin) <i>State of the Art? Computer Vision Projects in the Digital Humanities</i> bei der Winter School <i>Computer Vision for Digital Humanists</i> , co-organizer: Sean Winslow. 08.–10.02.2023, Graz. URL: https://www.youtube.com/playlist?list=PLWNohMNgUM_n03SG9UrzPpbyv_UoCg5w
2022	<i>Digital Editing & XML/TEI for pre-modern books, Data modelling, Scholarly Editing & Long-Term Archiving, Annotating with XML markup, Digital Editing & XML/TEI: Best practices & publication workflows, Using the Text Encoding Initiative XML standard, TEI for Digital Scholarly Editions, The future of printed books and digital editions</i> und <i>Transcriptions using Transkribus</i> bei der Winter School <i>Digitizing the Materiality of the Premodern Book</i> , co-organizers: Sean Winslow & Megan Piorko. 23.–26.11.2022, Graz. URL: https://www.youtube.com/playlist?list=PLWNohMNgUM_ndstozDRk7WcqjXv5EFzNC
30.04.–01.05.2022	<i>Beyond TEI: Digital Editions with XPath and XSLT for the web and in LaTeX</i> , Harvard University.
05.11.2019	Digitale Sprachverarbeitung für historische Disziplinen, Universität Graz.

SUPERVISION

Master's thesis "Handwritten Text Recognition und Text Reuse für digitale Editionen am Beispiel zweier alchemischer Texte des 17. Jahrhunderts", Thomas Zangl, Universität Graz, 2024–2025.

VIDEO-BASED TEACHING MATERIALS

- YouTube channel with teaching materials (@sarahalang)
- Video school *Computer Vision for Digital Humanists*: YouTube playlist
- Video school *Digitizing the Materiality of the Premodern Book*: YouTube playlist

Lecturing

In addition to formal teaching, I regularly contribute to scholarly training and knowledge transfer through invited lectures, workshops, and conference presentations. My work has been presented at a wide range of international conferences and research institutions in Europe, North America, and the Middle East.

A complete list of invited lectures and conference presentations is included in the application materials in the following pages.

Presentations

INVITED TALKS

- [2026] **Keynote**, “Was ist schon normal? Gesundheitsideale im Kontext der Trinkgolddebatte der 1610er Jahre”, *Total (ab)normal?! Körpernormen und Körpermetaphern in der lateinischen Literatur des Mittelalters*, Göttingen (04.09.2026).
- [2026] “Theorizing and Auditing (Gender) Data Gaps”, Leipzig Colloquium, Universität Leipzig (online, 01.07.2026).
- [2026] [with Megan Piorko and Richard Bean] “Online Advanced Training Lab on Alchemical Secrecy: New Methodological Challenges in Computational Cryptanalysis, Philology and the History and Philosophy of Science”, Advanced Training Lab organized by Donato Verardi as part of the MSCA project *SECRETS*, Ca’ Foscari University of Venice (online, 30.06.2026).
- [2026] [with Vojtěch Kaše] “Tracing the Histories of Early Modern Conceptual Ecosystems: Remote Sensing Methods for the Archaeology of Alchemical Knowledge”, Oxford Seminar in the History of Alchemy and Chemistry, Maison Française d’Oxford (03.06.2026).
- [2026] “LLMs and the Lure of Plausibility”, *Artificial Intelligence in Neo-Latin Studies: Prospects and Concerns*, Roundtable of the IANLS Committee for Digital Resources (20.02.2026). Video: https://commons.wikimedia.org/wiki/File:IANLS_AI_in_NeoLatin_Studies.webm (at 31:41).
- [2026] “Quantifying the Environmental Impacts of Large Language Models (LLMs) in Digital Humanities through Carbon Reporting”, AG Graphical Knowledge Interfaces (AG GKI) (03.02.2026). Slides: <https://doi.org/10.5281/zenodo.18671833>.
- [2025] “Tackling Data Gaps through Digital Humanities Practice”, Digital History Colloquium, Humboldt-Universität zu Berlin (10.12.2025). Video: https://www.youtube.com/watch?v=a1N01Gcq1Ag&list=PLWNohMNguM_n0DFIdS1UzVuCYRdDg-syK.
- [2025] “Making the Digital Humanities More Diverse and Inclusive: Theories and Practices”, Digital Humanities in Focus: Methods, Applications, and Perspectives, Universität Rostock (online; 27.10.2025). Slides: <https://doi.org/10.5281/zenodo.17733430>.
- [2025] “Investigating Alchemical Knowledge Work through the Lens of Digital Humanities”, Netzwerk Alchemie Herbsttagung, TU Bergakademie Freiberg (30.09.2025).
- [2025] “Efficient OCR Post-Correction and Annotation for Neo-Latin Corpora: A Human-in-the-Loop Workflow Integrating LLMs in Digital Scholarly Editing”, Digital Neo-Latin Studies: Ideas and Perspectives, Aarhus University (24.09.2025). Slides: <https://doi.org/10.5281/zenodo.17727639>.
- [2025] **Keynote Invitation** (*declined*), ‘Inclusive Data Practices in Digital Humanities’, Edrom Summer School (ESS), Heinz-Nixdorf-Institut, Universität Paderborn (08.09.2025).
- [2025] “Tackling the Dark Sides of DH: Ethics, Feminisms & Data Gaps in the Age of Computational Humanities”, Hengstberger Symposium “Disciplinary Transformations? Humanities Impact on Reshaping the Digital Humanities”, Universität Heidelberg (13.06.2025).

- [2025] “Toward a Computational History of Alchemy”, Alchemy of Global Partnerships Workshop (**Keynote**), New York University Abu Dhabi (15.05.2025).
- [2025] “Michael Maier und Trinkgold. Die medizinisch-unternehmerische Strategie hinter der Mythoalchemie”, Franckesche Stiftungen Halle (06.03.2025).
- [2025] “Toward a Computational History of Science: Computational Approaches to Knowledge Organization Practices in Early Modern Chymistry”, Descartes-Huygens Lecture (**Keynote**), KNAW Amsterdam (27.02.2025).
- [2024] “Digital methods in the history of chemistry” (chair: Guillermo Restrepo; panelists: Jeffrey A. Johnson, Evan Hepler-Smith, Sarah Lang), Conversations on the History of Chemistry, Commission on the History of Chemistry and the Molecular Sciences, 02. Okt. 2024 (cancelled).
- [2024] “Decrypting a polyalphabetic alchemical cipher and what that means for historians”, Geheimschriften-Workshop, Jessika Nowak, 24.05.2024.
- [2024] “Leveraging Large Language Models to Unveil Seventeenth-Century Books of Secrets”, Digital Seeds Speaker Series, Digital Scholarship at Falvey Library, Villanova University (11.04.2024).
- [2023] “Distant-Viewing Alchemical Laboratory Apparatus in Early Modern Print”, Leipzig Digital Lab, Computational Humanities Leipzig, 28.11.2023.
- [2023] “Mehr als nur Datenfeminismus. Wie können die Digital Humanities intersektionaler werden?”, DH-Kolloquium, TU Darmstadt, 24.10.2023.
- [2023] “Dechiffrierung einer alchemistischen Vorschrift / Decrypting an alchemical recipe”, 10. Arbeitstagung des ‘Netzwerk Alchemie’, Herbsttreffen des Netzwerkes Alchemie *Der Traum von Gold und Gesundheit: Alchemie zwischen Experiment und Spekulation* (9.-10.10.23), Forschungszentrum Gotha der Universität Erfurt, 10.10.2023.
- [2023] [with Megan Piorko] “Decrypting Sloane MS 1902”, Secret Science Seminar (organized by Alison McManus), Online / John’s Hopkins University, 11.09.2023.
- [2023] “Mehr als nur Lückenfüller. Das Gender Data Gap als dringendes Thema für historische Disziplinen und Digital Humanities”, InFoDiTexT+ Vortragsreihe SoSe 2023 (online), 24.03.2023.
- [2023] “Results of a computer-assisted textual comparison of the *Processus Universalis* recipe group / Ergebnisse eines computergestützten Textvergleichs der *Processus Universalis* Rezeptgruppe”, 9. Arbeitstagung des ‘Netzwerk Alchemie’, Abschlusstreffen *Processus Universalis*, Forschungszentrum Gotha der Universität Erfurt, 23.01.2023.
- [2022] “*Experimentorum decades*. Processing books of secrets and extracting recipes from Neo-Latin sources”, FU Berlin Digital Humanities Colloquium (online), FU Berlin, 09.11.2022.
- [2022] “Materialität und Digitalisierung im Kontext der alchemischen Tradition”, Netzwerktreffen Offenes MA, Heidelberg, Oktober 2022, Netzwerk Offenes Mittelalter, Uni Heidelberg, 11.10.2022.
- [2022] “Michael Maiers *Viatorium* (1618): Mythoalchemistisches ‘Book of Secrets’ oder Alchemielehrbuch?”, Michael Maier und die Formen (a)chemischen Wissens um 1600, SFB 980 Episteme in Bewegung, TP A06 ‘Alchemia poetica’, FU Berlin, 27.09.2022.
- [2022] “Mythoalchemie in Maiers *Viatorium* (1618). Wie man der Geheimnistrhetik durch interdisziplinäres Übersetzen alchemische Bedeutungsebenen entlocken kann.”, Sommertreffen des ‘Netzwerk Alchemie’, Forschungszentrum Gotha der Universität Erfurt, 27. Juni 2022.
- [2022] “Non ille Bombastus! Iatrochymist Michael Maier’s invectives and his defenses of alchemy”, Saeva Scientia: Denigration and Defamation in Early Modern Science, University of Innsbruck / Ludwig Boltzmann Institute for Neo-Latin Studies, 1.-2.6.2022 (talk cancelled).

- [2022] “Methoden der Digitalen Philologie. Von der Edition bis zu den Computational Literary Studies”, VO Digital Philology, Computational Humanities, Universität Leipzig, 24.05.2022.
- [2022] “Leveraging the Digital Humanities for decoding alchemical secrets”, Abendvortrag, Computational Humanities, Universität Leipzig, 24.05.2022.
- [2022] “Handschriften digital repräsentieren (Standards, Archivierung und Linked Open Data)”, 100200 KO ÄdL: Digitale Transformation in der Handschriftenforschung: (2022S) Einführung in die Methoden der Computer Vision und der Materialanalyse, Universität Wien, 19.05.2022.
- [2022] [mit Megan Piorko] “Decrypting the Philosophers’ Stone in Sloane MS 1902”, Turba, the online discussion group on the history of alchemy, Oxford University, 04.02.2022.
- [2021] “Zur Definition eines Experimentbegriffs für die Computational Humanities”, Lunchtime Lectures, Zentrum für Informationsmodellierung, Universität Graz, 15.12.2021.
- [2021] “Computational Approaches to (Mining) Alchemical Texts”, Leipzig Research Colloquium (online), Universität Leipzig, 08.12.2021.
- [2021] [mit Megan Piorko] “Decrypting the Philosophers’ Stone. An Alchemical Cipher in a Shared Notebook by John Dee and Arthur Dee”, Science History Institute Fellow’s Talks, Science History Institute Philadelphia, 07.12.2021.
- [2021] [mit Ursula Gärtner & Lukas Spielhofer] “Grazer Repitorium antiker Fabeln”, Potsdam, Online Event, 07.07.2021.
- [2021] “Michael Maier’s *Viatorium* (1618). Chymical discourse and its rhetoric of secrecy”, Noscemus ERC Meeting, Ludwig Boltzmann Institute for Neo-Latin Studies, 10.03.2021.
- [2020] “Digitale Erschließungsmethoden für alchemische Texte am Beispiel des Korpus des Iatrochymikers Michael Maier (1568–1622) / What Decknamen have to do with the Digital Humanities”, Forschungskolloquium, Leibniz Institut für Europäische Geschichte Mainz, 13. Okt. 2020.
- [2020] “Introduction to the symposium Alchemical Laboratories”, Alchemistische Labore. Texte, Praktiken, materielle Hinterlassenschaften (Wien und Oberstockstall), 19.02.2020.
- [2020] “Processus Universalis – Development of an Experimental Instruction from 1600 to 1750”, Alchemistische Labore. Texte, Praktiken, materielle Hinterlassenschaften (Wien und Oberstockstall), 19.02.2020.
- [2019] [mit Rainer Werthmann] “M.Maier, Viatorium (1618), Translation and Chemical commentary”, ‘Netzwerk Alchemie’, Autumn Meeting, Forschungszentrum Gotha der Universität Erfurt, 25.11.2019.
- [2019] “Michael Maier’s Chymical Worldview. Organizing encyclopedic knowledge under the paradigm of chymistry. Or: What Decknamen have to do with the Digital Humanities”. Wolfenbüttel, 9.9.2019.
- [2019] “A Thesaurus of alchemical Decknamen – Attempts at digital Modelling. Project update and further projects”; Springtime Meeting, Netzwerk Alchemie, Gotha, 20.03.2019.
- [2019] “Präsentation des GraF-Webportals: Fabula docet – Wer will schon saure Trauben? Grazer Repitorium antiker Fabeln (GraF)”, SchülerInnenkongress, Universität Graz, 24.05.2019.
- [2019] “A Thesaurus of Alchemical Decknamen – Attempts at digital modelling. Project Update and further projects”, Springtime Meeting of ‘Netzwerk Alchemie’, Forschungszentrum Gotha der Universität Erfurt, 20. März 2019.
- [2018] “Fabula docet – Wer will schon saure Trauben? Grazer Repitorium antiker Fabeln (GraF)”, Usus uetusto genere, sed rebus nouis – Workshop zur Antiken Fabel, Universität Graz, 09.11.2018.

- [2018] [mit Enno Friedrich] “Zwischen Weltgeschichte und Geschichtenwelt: Rezeption als inszenierte Resonanz”, On the Relationship of Resonance and Reception, Doktoratskolleg Resonante Weltbeziehungen in sozio-religiösen Praktiken in Antike und Gegenwart, 17.10.2018.
- [2018] “Grazer Repitorium antiker Fabeln. Stand der Dinge”, 3. Grazer Lateintag, Universität Graz, 12.10.2018.
- [2018] “Processus Universalis. Alchemical recipes and the Digital Humanities - assessing Intertextuality with digital methods”, Herbsttreffen des “Netzwerk Alchemie”, Forschungsbibliothek Friedenstern der Universität Erfurt in Gotha, 01.10.2018.
- [2018] “Grazer Repitorium antiker Fabeln. Präsentation des Webportals GRaF”, SchülerInnenkongress, Universität Graz, 25.05.2018.
- [2018] “Eine Aufarbeitung der “Processus Universalis”-Quellen mit Hilfe digitaler Methoden”. Spring meeting of “Netzwerk Alchemie” (15.03.2018, chair: Prof. M. Mulsow).
- [2018] “Vorstellung des Dissertationsvorhabens: Möglichkeiten automatisierter Edition alchemischer Texte über einen ‘Symbol’-Thesaurus (als Wissensmanagement-System)”. Spring meeting of “Netzwerk Alchemie” (15.03.2018, chair: Prof. M. Mulsow)
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OTHER TALKS

- [2026] [with Tessa Gengnagel] “A Discipline, Divided: On the Digital Humanities and Ideologies of Knowledge Work”, DH2026, Daejeon, South Korea (30.07.2026).
- [2026] “Occult Cryptography: Tracing the Intersections of Alchemy and Cryptography during the Renaissance Cipher Boom”, History of Science Society Annual Meeting (HSS2026), Edinburgh (15.07.2026).
- [2026] [with Matthias Arnold, Alíz Horváth, Jonas Müller-Laackman and Torsten Roeder] “The Dark Sides of DH Revisited: From Utopia to Reality”, DHd2026, Vienna (27.02.2026). <https://doi.org/10.5281/zenodo.18696194>.
- [2025] “Data-Driven Approaches to Books of Secrets”, History of Science Society Annual Meeting (HSS2025), New Orleans (16.11.2025).
- [2025] “Documenting Data Gaps as an Opportunity for Historical Research”, *Data Ethics for Historical Research in a Digital Era: Critical Reflections and Best Practices*, Mainz (10.11.2025).
- [2025] [with Farzad Mahootian] “Computational Studies of Martin Ruland’s *Lexicon Alchemiae*”, Fall Meeting of the Society for the History of Alchemy and Chemistry (SHAC), Philadelphia (16.10.2025).
- [2025] [with Shih-Pei Chen] “Adapting Object Detection Foundation Models for History of Science Data”, *AI-based Methods for the Humanities*, BIFOLD Berlin (24.09.2025).
- [2025] “Documenting Datasets as a Tool for Change”, DH2025, Lisbon (17.07.2025). <https://doi.org/10.5281/zenodo.18393402>.
- [2024] “LaTeX in the Digital Humanities”, TUG 2024, Prague (19.07.2024). <https://www.tug.org/tug2024/abstracts/lang-humanities.txt>.
- [2024] [with Sergei Zotov and Megan Piorko] “Sources of Alchemical Cryptography”, HistoCrypt 2024, Oxford (26.06.2024).

- [2025] [with Larissa Will, Jan Kamlah, Thomas Schmidt and Dorothee Huff] “eScriptorium meets LLMs: Moderne KI-Systeme im Kontext der Volltexterschließung”, DHD2025, Bielefeld (03.03.2025). <https://doi.org/10.5281/zenodo.14993342>.
- [2024] [with Christopher Pollin, Martina Scholger, Elisabeth Steiner, Selina Galka and Sebastian Schiller-Stoff] “Project Overhaul und Refactoring der digitalen Edition der ‘Urfehdebücher der Stadt Basel’ mithilfe von GPT-4 und LLM”, DHD2024, Passau (28.02.2024).
- [2023] “Toward a Computational Historiography of Alchemy: Challenges and Obstacles of Object Detection for Historical Illustrations of Mining, Metallurgy and Distillation in 16th–17th Century Print”, Computational Humanities Research 2023, Computational Humanities Research 2023 (Paris), 08.12.2023.
- [2023] [with Richard Bean] “The cipher of Emperor Rudolf II’s ‘Alchemical Hand Bell’”, HistoCrypt 2023, Deutsches Museum Munich (June 20-22, 2023), 21.06.2023.
- [2023] “Situating ciphers among alchemical techniques of secrecy”, HistoCrypt 2023, Deutsches Museum Munich (June 20-22, 2023), 21.06.2023.
- [2023] “Depicting Distillation: Computer Vision approaches to detecting scientific illustrations in metallurgical texts”, Scientiae 2023. Co-organised panel: Mining for Alchemical Knowledge and Natural Magic in Early Modern Germany. Other speakers: Michael Pickering (University of Melbourne), Sergei Zotov (Warwick University, Centre for the Study of the Renaissance). Panel Chair: Megan Piorko (Villanova University). Prague, 09.06.2023.
- [2023] “Unveiling alchemical secrets with the help of Digital Humanities”, 13th International Conference on the History of Chemistry (13ICHC, 23–27 May 2023). SHAC-sponsored panel (organized by Anna Simmons and Frank James): New approaches to the history of chemistry. Other speakers: Meagan Allen (John’s Hopkins University), Frank James (University College London), Adrian Wilson (University of Leeds). Panel Chair: Bruce Moran (University of Nevada, Reno). Vilnius, 24.05.2023.
- [2022] “Alchemical visual aids: Using Computer Vision to investigate chymical laboratory equipment illustrations in technical treatises”, Renaissance Society of America Annual Meeting. Co-organised panel: Illuminated alchemy: copying and (re)interpretation. Other speakers: Megan Piorko (Science History Institute), Sergei Zotov (HAB Wolfenbüttel). Panel Chair: Tina Asmussen (Ruhr University Bochum), Dublin, 01.04.2022.
- [2022] [mit Sebastian Stoff] “Expectation Management: Testability and Replicability in the context of research software development”, Source Code Criticism: Hermeneutics, Philology, and Didactics of Algorithms, Basel, 25.03.2022.
- [2022] “Mithilfe von Machine Reasoning alchemische Decknamen entschlüsseln”, DHD 2022 (Kulturen des digitalen Gedächtnisses), Digital Humanities im deutschsprachigen Raum (DHD), Universität Potsdam, 11.03.2022.
- [2022] “Textmining a Corpus of Neo-Latin Science”, International Association for Neo-Latin Studies (IANLS) Vacation School: Digital Humanities and Neo-Latin Studies, Bonn, 02.03.2022.
- [2021] “Assessing Michael Maier’s Contributions to Francis Anthony’s Apologia (1616) Using Stylometry”, Computational Humanities Research 2021, Computational Humanities Research, 19.11.2021.

- [2021] [with Megan Piorko] “Sloane MS 1902 Alchemical Cipher”, SHAC postgraduate workshop *Secrets of Matter, Matters of Secrecy*, Online Event, 03.06.2021.
- [2021] “Michael Maier’s literary framing as self-fashioning of an entrepreneurial alchemist in the Economy of Secrets”, The Applied Arts of Alchemy, Science History Institute (Philadelphia), Online Event, 20.05.2021.
- [2021] “Decoding alchemical cryptographical devices digitally. *Decknamen*, rhetoric of secrecy and machine reasoning”, Renaissance Society of America 2021 Annual Meeting (virtual symposium), Online Event, 13.-22.04.2021.
- [2020] “Poésie chimique. Approcher le langage symbolique de l’alchimie néo-latine du 17^{ème} siècle à travers un thesaurus Semantic Web”, Colloque “Humanités numériques et digital studies” (aufgrund von Covid19 abgesagt), Université Montpellier III (Paul Valéry), 02.12.2020.
- [2019] “On alchemical language: Connecting the dots between expert knowledge and *Decknamen* using digital methods”, 10th Annual SHAC Post-Graduate Workshop: ‘Society and the Creation of (Al-)Chemical Knowledge’, Society for the History of Alchemy and Chemistry, Ritman Library Amsterdam (NL), 28.11.2019.
- [2019] “The Modeling of Alchemical *Decknamen*: On the Potential of Digital Representation for Deepening Understanding in the Humanities”; 2019 Annual HSS Meeting, Utrecht (NL), 25.07.2019.
- [2019] “Die Allegoriae, mit welchen die Sapientes das Mysterium unserer secretae Philosophiae occultirt haben / werden uns als den offenbar / und nit mehr verborgen seyn. Zu Herausforderungen und Nutzen der digitalen Annotation alchemischer *Decknamen*”; *Annotationen in Edition und Forschung: Funktionsbestimmung, Differenzierung, Systematisierung* in Wuppertal (20.-22.02.2019).
- [2019] “Daten und Wissen. Annotation und Erschließung neulateinischer Gelehrtenliteratur am Beispiel der Alchemie Michael Maiers”, Antike Kulturen des Mittelmeerraums (AKMe, WS 2018/19), Universität Innsbruck, Feb. 2019.
- [2018] “*Obscurum vocabulum* – Data as coded knowledge. Tackling the challenge of implicit knowledge in data modeling using the example of alchemical literature”, EADH 2018 ‘Data in Digital Humanities’, National University of Ireland, 9. Dez. 2018.
- [2018] “Die Fabel lehrt – Fabula docet. Das Grazer Repositorium antiker Fabeln als fachdidaktische digitale Ressource”, Funktion und Aufgabe digitaler Medien in Geschichtswissenschaft und Geschichtsunterricht – 25. Jahrestagung der ‘Arbeitsgemeinschaft für Geschichte und EDV’, Universität Flensburg, 24.11.2018.
- [2018] “Digitale Erschließungsmethoden für alchemische Texte am Beispiel der *Symbola Aureae Mensae* Michael Maiers (1617)”, Antike Kulturen des Mittelmeerraums (AKMe), Karl-Franzens-Universität Graz, 15. Mai 2018.

PUBLICATIONS

To interactively explore my publications and access abstracts or full-text PDFs, please visit: <https://sarahalang.com/publications/>.

Monographs

1. Unpublished PhD thesis: Sarah Lang. “Alchemische Decknamen digital entschlüsseln. Polysemantische Annotation und Machine Reasoning am Beispiel des Korpus des Iatrochymikers Michael Maier (1568–1622)”. English Title: Decoding alchemical Decknamen digitally. Polysemantic Annotation and Machine Reasoning on the example of the corpus of iatrochymist Michael Maier (1568–1622). PhD thesis. Graz: University of Graz, 2021

(Co-)Edited Volumes

1. Edited volume “Digital and Computational History of Science”, book proposal with Bloomsbury Academic. More information: <https://sarahalang.com/projects/mpiwg-digital-histsci/>.
2. Special Issue “Computational Approaches in the History of Alchemy and Chemistry”, *Ambix* journal (July 2026). Co-edited with Farzad Mahootian & Guillermo Restrepo.
3. Arthur Dee. *Arca Arcanorum (The Secret of Secrets)*. Ed. by Megan Piorko. English translation based on the first printed edition of the 1634 manuscript, with an introduction by Megan Piorko; consultant on the translation: Sarah Lang. Aula Lucis, 2024
4. Sarah Lang, ed. *Alchemische Labore. Texte, Praktiken und materielle Hinterlassenschaften / Alchemical Laboratories: Texts, Practices, Material Relics*. Graz: Grazer Universitätsverlag, 2023. DOI: 10.25364/9783903374041. URL: <https://doi.org/10.25364/9783903374041>
5. *Book Reviews Editor*, JIPSS Journal 2019/I & 2019/II (2020).

Journal Articles

1. Sarah Lang. “Epilogue: A Computational Turn? Digital and Computational History of Science, Knowledge and Technology”. In: *Ambix* 74 (2026)
2. Vojtěch Kaše and Sarah Lang. “Contextual Word Embeddings for Paracelsian Lexicography: Tangled Terminologies and Their Origins in Ruland’s Alchemical Dictionary”. In: *Ambix* 74 (2026). DOI: 10.1080/00026980.2026.2692190
3. Sarah Lang, Farzad Mahootian, and Hazem Lashen. “Mediating Alchemical Language across Terminologies and Cultures in Ruland’s Lexicon Alchemiae: A Data-Driven Study of Arabic Terms”. In: *Ambix* 74 (2026). DOI: 10.1080/00026980.2026.2697142
4. Sarah Lang and Elena Suárez Cronauer. “Dataset Audits for Mitigating Data Gaps”. In: *Computational Humanities Research* (2026). Accepted, forthcoming
5. Farzad Mahootian, Sarah Lang, and Guillermo Restrepo. “Introduction: Computational Approaches to the Histories of Alchemy and Chemistry”. In: *Ambix* 74 (2026)

6. Sarah Lang and Elena Suárez Cronauer. “Beyond Data Feminism: Towards Ethical Data Work in the (Digital) Humanities”. In: *Zeitschrift für digitale Geisteswissenschaften* (2026). Zeitschrift für digitale Geisteswissenschaften / Working Papers, 4. DOI: 10.17175/wp_2026. URL: https://zfdg.de/wp_2026
7. Sarah Lang. “Ways of making digital editions of historical recipes and experimental texts: The Making and Knowing Project”. In: *RIDE* 21 (2026). DOI: 10.18716/ride.a.21.4. URL: <https://ride.i-d-e.de/issue-21/makingandknowing/>
8. Sarah Lang. “Towards a Data-Driven History of Lexicography: Two Alchemical Dictionaries in TEI-XML”. in: *Journal of Open Humanities Data* 11.20 (2025), pp. 1–6. DOI: 10.5334/johd.303. URL: <https://openhumanitiesdata.metajnl.com/articles/10.5334/johd.303>
9. Sarah Lang. “Fine-Tuning Machine Learning with Historical Data: An Alchemical Object Detection Dataset for Early Modern Scientific Illustrations”. In: *Zeitschrift für digitale Geisteswissenschaften* 10 (2025). DOI: 10.17175/2025_002. URL: https://zfdg.de/2025_002
10. Sarah Lang. “Defining Chymistry Through Insults? Michael Maier’s Accusations of Alchemical Fraud in the Entrepreneurial Marketplace”. In: *Daphnis* 52.2 (2024), pp. 235–262. DOI: 10.1163/18796583-05202006. URL: https://brill.com/view/journals/daph/52/2/article-p235_5.xml
11. Megan Piorko, Sarah Lang, and Richard Bean. “Deciphering the Hermeticae Philosophiae Medulla: Textual Cultures of Alchemical Secrecy”. In: *Ambix* 70.2 (2023), pp. 150–183. DOI: <https://doi.org/10.1080/00026980.2023.2201744>. URL: <https://doi.org/10.1080/00026980.2023.2201744>
12. Sarah Lang. “Furnace and Fugue. A multimedia edition of Michael Maier’s *Atalanta fugiens*”. In: *RIDE* 18 (2023). DOI: 10.18716/ride.a.18.4. URL: <https://ride.i-d-e.de/issues/issue-18/furnace-fugue/>
13. Sarah Lang. “A Machine Reasoning Algorithm for the Digital Analysis of Alchemical Language and its Decknamen”. In: *Ambix* 69.1 (2022), pp. 65–83. DOI: 10.1080/00026980.2022.2038428. URL: <https://www.tandfonline.com/doi/full/10.1080/00026980.2022.2038428>
14. Sarah Lang and Lukas Spielhofer. “Digitale Lernplattformen und Open Educational Resources im altsprachlichen Unterricht I: Technische Spielräume am Beispiel ‚Grazer Repitorium antiker Fabeln‘ (GRaF)”. in: *Zeitschrift für digitale Geisteswissenschaften (zfdg)* 5 (2020). DOI: 10.17175/2020_004. URL: https://zfdg.de/2020_004
15. Sarah Lang. “Perseus Digital Library”. In: *RIDE: A Review Journal for Digital Editions and Resources* 8 (2018). DOI: 10.18716/ride.a.8.3. URL: <https://ride.i-d-e.de/issues/issue-8/perseus/>
16. Sarah Lang. “Tragisches Ritual? Zum Aigisthosmord der euripideischen Elektra im Opferkontext”. In: *Eisodos: Zeitschrift für Antike Literatur und Theorie* 2018.1 (2018)

Other

This section contains 54 publications in total (not counting blogposts).

Peer-reviewed conference proceedings

6.1.1 DHd

1. Matthias Arnold et al. “The Dark Sides of DH Revisited: From Utopia to Reality”. In: *DHd2026 Book of Abstracts*. Ed. by Silke Schwandt et al. Zenodo, 2026, pp. 113–115. DOI: 10.5281/zenodo.18696194. URL: <https://doi.org/10.5281/zenodo.18696194>

2. Larissa Will et al. “eScriptorium Meets LLMs: Moderne KI-Systeme im Kontext der Volltexterschließung”. In: *Digital Humanities im deutschsprachigen Raum 2025: Book of Abstracts*. 2025, pp. 40–43. DOI: 10.5281/zenodo.14943148. URL: <https://zenodo.org/records/14943148>
3. Christopher Pollin et al. “Project Overhaul Und Refactoring Der Digitalen Edition Der ’Urfehdebücher Der Stadt Basel’ Mithilfe Von GPT-4 Und LLM”. in: *DHd 2024 Quo Vadis DH*. Zenodo, 2024. DOI: 10.5281/zenodo.10698240. URL: <https://zenodo.org/records/10698240>
4. Sarah Lang, Luise Borek, and Nora Probst. “Data Feminism in DH”. in: *DHd2023: Open Humanities, Open Culture*. Book of Abstracts. 2023. DOI: 10.5281/zenodo.7715422. URL: <https://zenodo.org/records/7715422>
5. Tessa Gengnagel, Sarah Lang, et al. “Open DH? Mapping Blind Spots”. In: *DHd 2023 Open Humanities Open Culture. 9. Tagung des Verbands “Digital Humanities im deutschsprachigen Raum” (DHd 2023)*. Trier, Luxemburg, Mar. 2023. DOI: <https://doi.org/10.5281/zenodo.7715329>. URL: <https://zenodo.org/records/7715329>
6. Sarah Lang. “Mithilfe von Machine Reasoning alchemische Decknamen entschlüsseln”. In: *DHd2022: Kulturen des digitalen Gedächtnisses*. Book of Abstracts. 2022, pp. 175–178. DOI: <https://doi.org/10.5281/zenodo.6304590>. URL: <https://zenodo.org/records/6304590>

6.1.2 DH

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