

Syllabus
Lecture: Digital Humanities - Introductions
SS 2023

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Organization
by DH^{CH} Digital Humanities Switzerland

Contact person at your university

Universität Basel: Dr. Vera Chiquet, MA Christian Weber
Universität Bern: Prof. Dr. Tobias Hodel, Dr. Christa Schneider, Laura Strub
Università della Svizzera italiana: Prof. Dr. Sonja Hildebrand

Course

Digital Humanities is a new field of computer-based research in the humanities and social sciences. The lecture series provides an overview of the most important developments and research priorities in the Digital Humanities at Swiss universities & cooperation partners abroad and is held under the auspices of the initiative [Digital Humanities Switzerland \(DHCH\)](#). The interdisciplinary and inter-university event is aimed at all students of the participating universities.

The event will only take place virtually and the individual lectures can be viewed online as videos. There is a "consultation hour" for some parts, in which interested students can exchange with the lecturer in an open discussion for around 30 minutes. Links to the videos and information for the consultation hour will be online by the end of February on ADAM.

If you would like to take the MC exam (open book) at the end of the semester, register for the course regularly at your university. You will get access to the course-platform (ADAM) by March 31th 2023 the latest. The exam is conducted in ADAM. The exam starts at 0:05 a.m. on 1.06.2023 and you'll have a 24 hour time slot (do not start later than 11:05 p.m. on 1.06.2023). You will have 60 minutes for the examination. A Q&A for the exam will take place on 4th May 2023 (10-11) via Zoom - attendance is voluntary.

Assessment (not possible for USI students in 2023)

- Online MC (multiple choice), open book
- Repeat examination: one repetition
- Scale: Pass/Fail, 3 ECTS

Administrative contact

University of Basel: Christian Weber
University of Bern: Dr. Christa Schneider, Laura Strub
Università della Svizzera italiana: Prof. Dr. Sonja Hildebrand; Dr. Elena Chestnova

Overview lecturers (click on the topic text for the video)

(alphabetic order)

[Link to video folder](#)

Name	Institution	Topic	Further documents / papers
Andreas Fischer	HES-SO & Universität Fribourg	Text Recognition	-
Béatrice Joyeux-Prunel	Universität Genf & DARIAH	Digital Art History - How Can You Talk About Images You Haven't Seen?	-
Bianca Prietl	Universität Basel	Understanding Digitalization from Gender Perspectives	List at the end of the presentation
			Aleksej V. Gladkij & Igor A. Mel'čuk (1973): Elemente der mathematischen Linguistik. Berlin: VEB Deutscher Verlag der Wissenschaften (Autorisierte Übersetzung aus dem Russischen, Original 1969, Moskau: Nauka). Linda S. Flower & John R. Hayes (1981): A Cognitive Process Theory of Writing. In College Composition and Communication, 32(4):365–387, doi: 10.2307/356600. John R. Hayes (2012): Modeling and Remodeling Writing. In Written Communication, 29(3):369–388, doi: 10.1177/0741088312451260. Daniel Perrin & MarcWildi (2009): Statistical modeling of writing processes. In C. Bazerman, R. Krut, K. Lunsford, S. McLeod, S. Null, P. Rogers, & A. Stansell (Eds.), Traditions of Writing Research, 378–393. Marlene Scardamalia & Carl Bereiter (1983): The development of evaluative, diagnostic and remedial capabilities in children's composing. In Margaret Martlew (Ed.) The psychology of written language. Developmental and educational perspectives, 67–95. Mike Sharples (1999): How We Write: Writing As Creative Design. Cerstin Mahlow & Michael Piotrowski (2022): Academic writing and publishing beyond documents. In: Proceedings of the 22nd ACM Symposium on Document Engineering (DocEng '22), 4pages. doi: 10.1145/3558100.3563840.
Cerstin Mahlow	ZHAW	Digital Linguistics	Cerstin Mahlow & Robert Dale (2014). Production media: Writing as using

			tools in media convergent environments. In E. M. Jakobs & D. Perrin (Eds.), <i>Handbook of writing and text production, handbooks of applied linguistics</i> (Vol. 10, 209–230). Cerstin Mahlow (2015): A Definition of "Version" for Text Production Data and Natural Language Document Drafts. In: <i>Proceedings of the 3rd International Workshop on (Document) Changes: Modeling, Detection, Storage and Visualization</i>, 27-32. Py Kollberg & Kerstin Severinson Eklundh (2002): Studying writers' revising patterns with S-notation analysis. In Thierry Olive & C. Michael Levy (Eds.), <i>Contemporary tools and techniques for studying writing, Studies in writing</i> (Vol. 10, 89–104). Cerstin Mahlow, Małgorzata Anna Ułasiak, & Don Tuggener (2022): Extraction of trans-forming sequences and sentence histories from writing process data: a first step towards linguistic modeling of writing. <i>Reading and Writing</i>, doi: 10.1007/s11145-021-10234-6
Elena Chestnova	Università della Svizzera italiana	Digital Editing: Introduction	Examples of Digital Editions http://prhl-kws.prhl.upv.es/bentham/ Bentham Papers, UCL http://hallernet.org/ Albrecht von Haller https://www.darwinproject.ac.uk/ Darwin Correspondence Project https://fontane-nb.dariah.eu/index.html Theodore Fontane http://vangoghletters.org/vg/ Van Gogh Letters http://faustedition.net/ Goethe's „Faust“ https://www.menota.org/ Medieval Nordic Text Archive Resources and initiative related to editions TEI https://tei-c.org/ TEI Publisher https://teipublisher.com/ LEAF Writer https://leaf-writer.leaf-vre.org/ Sperberg-McQueen, C. M., and Claus Huitfeldt. 'GODDAG: A Data Structure for Overlapping Hierarchies'. In <i>Digital Documents: Systems and Principles</i>, edited by Peter King and Ethan V. Munson, 139–60. Lecture Notes in Computer Science. Berlin, Heidelberg: Springer, 2004. Van Zundert, Joris, and Tara Andrews. "Apparatus vs Graph: New Models and Interfaces for Text." In <i>Interface Critique</i>, edited by F. Hadler and J. Haupt, 183–205. <i>Kaleidgramme</i> 139. Berlin: Kulturverlag Kadmos, 2016. Kuczera, Andreas. "Digital Editions beyond XML - Graph-Based Digital Editions." In <i>Graph Technologies in the Humanities - Proceedings 2020</i>, edited

			by Tara Andrews, Franziska Diehr, Thomas Efer, Andreas Kuczera, and Joris Van Zundert, 2020. Toschka, Patrick, Julian Jarosch, and Andreas Kuczera. "The Socinian Correspondence: A Graph-Based Digital Scholarly Edition." In Graph Technologies in the Humanities - Proceedings 2020, edited by Tara L. Andrews, Franziska Diehr, Thomas Efer, Andreas Kuczera, and Joris Van Zundert, 15, 2020.
Gerhard Lauer	Universität Mainz	Digital Book Studies	-
Lukas Rosenthaler	Universität Basel	Open Linked Data & Semantic Web	
Michael Piotrowski	Université de Lausanne	Theory and Epistemology of Digital Humanities	see lecture notes on ADAM
Noah Bubenhofer	Universität Zürich	Introduction into Corpus Linguistics	CLARIN Virtual Language Observatory: https://vlo.clarin.eu Corpora in Switzerland: https://clarin-ch.ch lang-lit.ch: https://www.lang-lit.ch/en/lang-lit/resources-publications/corpora Noah Bubenhofer: Einführung in die Korpuslinguistik, https://www.bubenhofer.com/korpuslinguistik/ Swissdox@LiRI: Swiss media database for academic use, https://www.liri.uzh.ch/en/services/swissdox.html
Peter Fornaro	Universität Basel	Imaging Technologies in DH (German only, not relevant for exam)	-
Ramona Roller	ETH	Network Analysis	Newman, M. (2018). <i>Networks</i>. Oxford university press. Classic textbook on network analysis Historical Network Research. Community of researchers applying network analysis to historical data. They also have their own journal. <i>Social Networks</i>. Scientific journal with network analysis of data from the social sciences and sometimes the humanities. Other links are listed on the lecture slides.
Rico Sennrich	Universität Zürich & DARIAH	Natural Language Processing	Koehn, P. (2020). Neural Machine Translation. Cambridge University Press. Li, M., Lv, T., Cui, L., Lu, Y., Florêncio, D. A. F., Zhang, C., Li, Z., and Wei, F. (2021). Trocr: Transformer-based optical character recognition with pre-trained models. CoRR, abs/2109.10282. Ströbel, P. B., Volk, M., Clematide, S., Schwitler, R., Hodel, T., and Schoch, D. (2022). Evaluation of HTR models without ground truth material. In Proceedings of

			the Thirteenth Language Resources and Evaluation Conference, pages 4395–4404, Marseille, France. European Language Resources Association.
Selena Savić	FHNW	Digitization. Data Materialism in Digital Humanities	see lecture notes on ADAM
Stefan Münnich	Universität Basel	Digital Musicology	Link to slides with all links: https://tinyurl.com/digital-musicology-intro
Tobias Hodel	Universität Bern & DARIAH	Early Modern History after the Machine Learning Turn	Hodel, Tobias. „Chapter 6: Supervised and Unsupervised: Approaches to Machine Learning for Textual Entities“. In <i>Archives, Access and Artificial Intelligence. Working with Born-Digital and Digitized Archival Collections</i>, herausgegeben von Lise Jaillant. Digital Humanities Research 4. Bielefeld: Transcript, 2022. Hodel, Tobias. „Die Maschine und die Geschichtswissenschaft: Der Einfluss von deep learning auf eine Disziplin“. In <i>Digital History: Konzepte, Methoden und Kritiken Digitaler Geschichtswissenschaft</i>, herausgegeben von Karoline Dominika Döring, Stefan Haas, Mareike König, und Jörg Wettlaufer, 6:65–80. Studies in Digital History and Hermeneutics. Berlin, Boston: De Gruyter Oldenbourg, 2022. https://doi.org/doi:10.1515/9783110757101-004. Hodel, Tobias, David Schoch, Christa Schneider, und Jake Purcell. „General Models for Handwritten Text Recognition: Feasibility and State-of-the Art. German Current as an Example“. <i>Journal of Open Humanities Data</i>, Journal of Open Humanities Data, 7 (2021). https://doi.org/10.5334/johd.46. Hodel, Tobias. „Konsequenzen der Handschriftenerkennung und des maschinellen Lernens für die Geschichtswissenschaft. Anwendung, Einordnung und Methodenkritik“. <i>Historische Zeitschrift</i> 316, Nr. 1 (2023): 151–80. https://doi.org/10.1515/hzhz-2023-0006.
Tobias Wildi	FH Graubünden	Introduction to Archives and Digital Preservation	Digital Preservation Coalition: Digital Preservation Handbook. https://www.dpconline.org/handbook
Vera Chiquet	Universität Basel	Digital Photography	Fineman, Mia (2012) <i>Faking It. Manipulated Photography before Photoshop</i>. Metropolitan Museum of Art, New York. Siepmann, Eckhard (1983) <i>Montage: John Heartfield</i>, Elefanten Press. Chiquet, Vera (2018) <i>Fake Fotos</i>, transcript Bielefeld.
Yannick Rochat	Université de Lausanne	Game Studies	-

Overview “consultation hour”

Date	Name	Topic	Link (Zoom, Teams, etc.)	Host
April 4 th , 2023 10:00-11:00	Prof. Dr. Andreas Fischer	Text Recognition	https://teams.microsoft.com/l/meetup-join/19%3aaUmOsDUdjYnpmDuUZIgw4pzcj92qz7qqYmn883_kafs1%40thread.tacv2/1675970974967?context=%7b%22Tid%22%3a%22a372f724-c0b2-4ea0-abfb-0eb8c6f84e40%22%2c%22Oid%22%3a%22ad24d092-72d4-4519-9744-97414cf3dbe3%22%7d	Ch. Weber
April 12, 2023 15.00-16.00	Dr. Elena Chestnova	Digital Editions: Introduction	https://ethz.zoom.us/j/66499302242	V. Chiquet
April 18, 2023 16:00-17:00	Prof. Dr. Rico Sennrich	Natural Language Processing	https://uzh.zoom.us/j/63598349152?pwd=SEsrUXB1YXIBZHBSMjhtWlBQQnlnQT09	V. Chiquet
April 19, 2023 10:00 - 11:00	Dr. Vera Chiquet	Digital Photography	https://unibas.zoom.us/j/63003566681	Ch. Weber
April 25, 2023 10:15–11:00	Prof. Dr.-Ing. Michael Piotrowski	Theory and Epistemology of Digital Humanities	https://unil.zoom.us/j/99219133956	C. Schneider

April 27, 2023 13:30-14:30	Prof. Dr. Tobias Hodel	Early Modern History after the Machine Learning Turn	https://unibe-ch.zoom.us/my/thdhunibe	L. Strub
May 1st, 2023 15:00	Prof. Dr. Yannick Rochat	Game Studies	https://unil.zoom.us/my/yrochat	L. Strub
May 3 rd , 2023 12:15-13:00	Prof. Dr. Bianca Prietl	Understanding Digitalization from Gender Perspectives	https://unibas.zoom.us/j/67311004173?pwd=V2lqUmZDOXdWYjlpalpmWDNTejhJQT09 Meeting ID: 673 1100 4173 Passcode: 290480	L. Strub
May 4th, 2023 10:00-11:00	Christian Weber	Q&A exam	https://unibas.zoom.us/j/61100278159?pwd=cVVjTmZWVU1Sb1JuOHFPWkhaektpQT09 Meeting-ID: 611 0027 8159 / Kenncode: 947737	V. Chiquet
May 8, 2023 11:00-12:00	Dr. Selena Savic	Digitization. Data Materialism in Digital Humanities	https://fhnw.zoom.us/j/65874538581?pwd=OTBVYUlsN29pVlIxVII1TERxamRWZz09	L. Strub
May 8, 2023, 11:30 to 12:30	Prof. Dr. Cerstin Mahlow	Digital Linguistics	https://teams.microsoft.com/l/meetup-join/19%3ameeting_YmNiYmUwNDYtOGVlNy00ZDExLTk1YTEtN2M0NTVjYjc1ZDFk%40thread.v2/0?context=%7b%22Tid%22%3a%225d1a9f9d-201f-4a10-b983-451cf65cbc1e%22%2c%22Oid%22%3a%22cdb55ac9-02a4-447e-9cdc-68cae4bcf000%22%7d Besprechungs-ID: 363 058 978 183 Passcode: 7progP	C. Schneider
May 9 th , 2023	Dr. Ramona Roller	Network Analysis	https://ethz.zoom.us/j/61577404251?pwd=bFFFm281TC9FUzI2TWRzbWN2Z	Ch. Weber

10:00			EFTZz09 , Password: Networks	
May 10th, 2023 11:00	Dr. des. Stefan Münnich	Digital Musicology	https://unibas.zoom.us/j/64478914661?pwd=Q05PTEpVdENqWTZtMDNsUnBEWU52dz09	T. Hodel
May 10th, 2023 14:00-15:00	PD Dr. Peter Fornaro	Imaging Technologies in DH	will be sent	T. Hodel
May 16, 2023 15:00-16:00	Prof. Dr. Noah Bubenhofer	Introduction into Corpus Linguistics	https://uzh.zoom.us/j/69639022577?pwd=YW5uS2xHVlh6N2lrVVlabWo5OGVJQT09 Meeting-ID: 696 3902 2577 Kenncode: 973580	C. Schneider

Sample questions

You have to answer a total of 20 questions, which are generated from a question pool so that the examination cannot be taken in partner work. Each question has 4 possible answers, where none, one, two, three or all four can be correct. You will get one point for each answer choice if you put the cross in the right place (no negative points) - which gives a total of 4 points per correctly solved question. The test is passed when you have marked at least 60% correctly.

Which of the following statements hold true, when following Walter Benjamins perspective? (Vera Chiquet)

- You can learn a lot by amusement and marvel about new media
- The will for education is the only way to gain knowledge about media
- Boredom dumbs down, curiosity (Kurzweile) enlightens
- Only by professional educational you can understand media processes

What form of machine learning is being used to train algorithms for Handwritten Text Recognition? (Tobias Hodel)

- Reinforcement Learning
- Always a combination of at least two of the mentioned technologies
- Supervised Machine Learning
- Unsupervised Machine Learning