

# Hendrik Erz

## PhD Candidate

Institute for Analytical Sociology (IAS)  
Linköping University

Kopparhammaren 7  
Kungsgatan 56, Entrance 56D  
601 74 Norrköping, Sweden

## Contact

**Email:** hendrik.erz@liu.se  
**Website:** hendrik-erz.de  
**ORCID:** 0000-0003-0775-5919

**Bluesky:** @hendrik-erz.de  
**Mastodon:** @hendrikerz@scholar.social

## Research Interests

Political Sociology, Computational Social Science, Natural Language Processing, Computational Text Analysis, Sociology of Culture, Science of Science, Ethics of AI

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## Education

- Since 2020**     **PhD in Analytical Sociology, Linköping University**  
Supervisors: Jacob Habinek, Étienne Ollion  
(expected: 2025)
- 2017**     M.A. in Sociology, University of Bonn
- 2014**     B.A. in History, University of Bonn (minor: Political Science)

## Extracurricular

- 2021**     Science of Science Summer School (S4)  
Syracuse University, New York, United States

## Employment

- 2019-20**     **Researcher in Machine Learning / Artificial Intelligence**  
Institute for Peace Research and Security Policy (IFSH)  
University of Hamburg
- 2017-19**     **Research Assistant Domestic Policy / Digitalization**  
Department for Political Science and Sociology  
University of Bonn

## Publications

### Manuscripts in Preparation

**Hendrik Erz.** Policymaking in Times of Crisis: Discursive Dynamics in U.S. Congress, 1960-1990.

**Hendrik Erz.** Vote Defection and Party Power in U.S. Congress: Modelling a Century of Speech and Vote Behavior, 1873-1989.

**Hendrik Erz.** Measuring Issue-Level Polarization in U.S. Congressional Discourse Using Topic Models and Community Detection. *Currently under review*

**Hendrik Erz, Sebastian Giessler.** Language Models from the Sweatshop? Helping Researchers Avoid Ethical and Legal Issues With Off-The-Shelf Software.

### Peer-Reviewed Articles

**2025** Manika Lamba, **Hendrik Erz** (2025). Thanking the World: Exploring gender-based differences in acknowledgment patterns and support systems in theses. *Data and Information Management* 100092. <https://doi.org/10.1016/j.dim.2024.100092>

Alexandra Dirksen, Sebastian Giessler, **Hendrik Erz**, Martin Johns, Tobias Fiebig (2025). Don't Patch the Researcher, Patch the Game: A Systematic Approach for Responsible Research via Federated Ethics Boards. *Proceedings of the New Security Paradigms Workshop*, 126–141. New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3703465.3703475>

**2019** **Hendrik Erz** (2019). Der lange Schatten von Gustave Le Bon. Zum sprachlichen Einfluss der Crowd Science auf die Soziologie der Gewalt. *Soziologiemagazin* 2/2019, 71–88. <https://doi.org/10.3224/soz.v12i2.06>  
("The long shadow of Gustave Le Bon. On the linguistic influence of Crowd Science on the Sociology of Violence.")

### Book Chapters

**2018** **Hendrik Erz** (2018). Karl Marx und das digitale Zeitalter, in: Klasse, Kapital und Revolution. 200 Jahre Marx. Dietz, Bonn, pp. 145–156.

### Other Publications

**2023** **Hendrik Erz, Anastasia Menshikova** (2023). Text als Daten. Extraktion von Variablen mittels LSTM-Netzwerken. In: Paula-Irene Villa (ed.) 2023: *Polarisierte Welten. Verhandlungen des 41. Kongresses der Deutschen Gesellschaft für Soziologie 2022*. [https://publikationen.sozioologie.de/index.php/kongressband\\_2022/article/view/1693](https://publikationen.sozioologie.de/index.php/kongressband_2022/article/view/1693)  
("Text as Data. Variable Extraction via LSTM Networks")

**2020** **Hendrik Erz** (2020). Künstliche Intelligenz und Daten: Eine Evaluation software-basierter militärischer Informationsgewinnung (Research Report No. 4). IFSH, Hamburg. [https://ifsh.de/file/publication/Research\\_Report/004/20200701\\_Research\\_Report\\_004.pdf](https://ifsh.de/file/publication/Research_Report/004/20200701_Research_Report_004.pdf) (accessed 07.01.21)  
("Artificial Intelligence and data: An evaluation of software-based military intelligence.")

**Hendrik Erz** (2020). Operative Porträts: eine Bildgeschichte der Identifizierbarkeit von Lavater bis Facebook. Von Roland Meyer. Review. *Soziologiemagazin* 2020, 75–81. <https://doi.org/10.3224/soz.v13i1.07>

**Hendrik Erz** (2020). The Status Quo is a Dystopian Nightmare. *engagée* 9, 20–25.

**2019** **Hendrik Erz** (2019). Neoliberalismus — Wie alles anfang: Das Walter Lippmann Kolloquium. Review. *Soziologieblog*. <https://soziologieblog.hypotheses.org/12990> (accessed 10.23.19).

Andreas Schulz, **Hendrik Erz**, Veronika Riedl (2019). How to make a Soziologiemagazin. Soziologiemagazin 1/2019. <https://elibrary.utb.de/doi/pdf/10.3224/soz.v12i2.08> (accessed 07.01.21)

- 2017** **Hendrik Erz** (2017). Zygmunt Bauman: Die Angst vor den anderen. Review. Widerspruch 70/2017, 164–168.

## Invited Talks

- 2024** **Economic Policymaking in U.S. Congress**  
Institute for Social Science, Department for Computational Social Science  
University of Stuttgart, Germany
- Economic Policymaking in U.S. Congress**  
IAS Annual Spring Retreat, Kolmården, Sweden
- 2023** **Polarization and Paradigm Shifts in US Congressional Economic Policymaking**  
IAS Text Analysis Research Group, Norrköping, Sweden
- 2022** **Discursive Dynamics in Policymaking: Economic Policymaking in U.S. Congress**  
IAS Conference, Stockholm, Sweden
- 2022** **Technological A11y: Zettlr Beyond the Code**  
Staatliche Hochschule für Gestaltung, Karlsruhe, Germany

## Conference and Workshop Presentations

- 2025** **Vote Defection and Party Power in U.S. Congress**  
Join Spring Conference of the methods sections of DGS and AS  
University of Leipzig, Germany
- 2024** **Language Models from the Sweatshop? Helping Researchers Avoid Ethical and Legal Issues With Off-The-Shelf Software**  
Conference of the Nordic Sociological Association (NSA) 2024, Norrköping, Sweden (in session Pretrained models and sociology)
- Policymaking in Times of Crisis: Discursive Dynamics in U.S. Congress, 1960-1990**  
Conference of the American Sociological Association (ASA) 2024, Montréal, Canada
- Markets as actors: Congressional speech between regulation and market freedom**  
Conference of the International Network of Analytical Sociologists (INAS), Leipzig, Germany
- Economic Policymaking in U.S. Congress** (Lightning Talk)  
Swedish Conference on Computational Social Science, Uppsala, Sweden
- 2023** **Language Models from the Sweatshop? Towards Guidelines For CSS Researchers to Avoid Ethical and Legal Issues With Off-The-Shelf Software.** (Poster)  
International Conference on Computational Social Sciences (IC2S2), Copenhagen, Denmark

**From Speeches to Bills: How do Discursive Dynamics Shape Policymaking in U.S. Congress?**

Conference of the International Network of Analytical Sociologists (INAS), Princeton, United States

**Taming Rogue Ethics: The Case for a Unified and Fair IRB Procedure**

STS-hub.de Conference, Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen, Germany

**Disentangling the Discourse on U.S. Economic Policymaking**

Textual Politics Conference, Sciences Po, Paris, France.

**2022 Text als Daten: Extraktion von Variablen mittels LSTM-Netzwerken**

Kongress der Deutschen Gesellschaft für Soziologie, Bielefeld, Germany.

**Extracting Agency from Textual Data Using LSTM Networks**

Conference of the International Network of Analytical Sociologists, Florence, Italy.

**2019 From Arab Spring to Gilets Jaunes: Riots and the annihilation of legality**

Historical Materialism Athens Conference, Greece.

**2017 Terrorismus und der War on Terror**

Master Thesis Presentation, Studentischer Soziologiekongress, TU Chemnitz, Germany.

## Teaching

**2022-2024 Digital Strategies for the Social Sciences**

M.Sc. program; Teaching Assistant; Linköping University

**2023 Summer Institute for Computational Social Sciences (SICSS)**

Lecture and workshop on Computational Text Analysis

**2021-2023 Logic of Social Inquiry**

M.Sc. program; Teaching Assistant; Linköping University

**2018-2019 Introduction to Political Science**

B.A. program; Teacher; University of Bonn

**2018 Scientific Writing**

B.A. program; Teacher; University of Bonn

**2018 Introduction to Karl Marx' Capital (Reading Course)**

B.A. program; Course Director; University of Bonn

**2015 Tutorial: Methods for Quantitative Sociology**

B.A. program; Teaching Assistant; University of Bonn

## Service

**Reviewer**

**Since 2025** Network Science

**Since 2018** Soziologiemagazin

## Editorial Board Member

**2020-2024** Head of Editorial Board, Soziologiemagazin

## Organization and Organizational Assistance

**Since 2023** Swedish Interdisciplinary Research School in Computational Social Science (SIRCSS), Norrköping, Sweden (with PI Jacob Habinek)

**Since 2022** Website administration; International Network of Analytical Sociologists (INAS)

**2025** Chair for the International Conference on Computational Social Science (IC2S2), Norrköping

**2025** Summer Institute in Computational Social Science (SICSS), Norrköping, Sweden (with PI Jacob Habinek)

**2024** Session Pretrained models and sociology: ethical, methodological, and theoretical considerations (at NSA 2024)

**2023** Summer Institute in Computational Social Science (SICSS), Norrköping, Sweden (with PI Jacob Habinek)

**2022** IAS PhD Retreat, Norrköping, Sweden

**2021-2022** IAS Salon (Institute Reading Group)

**2021-2022** PhD Representative, Institute for Analytical Sociology

**2016** Student Research Symposium, University of Bonn, Germany

## Supervision

Co-Supervisor, M.Sc. thesis in CSS, Sophia Grill (2024)

Co-Supervisor, M.Sc. thesis in CSS, Yiqiu Wang (2023)

Co-Supervisor, M.Sc. thesis in CSS, Lijun Peng (2022)

## Memberships

American Sociological Association (ASA);  
International Network of Analytical Sociologists (INAS)

## Academic Software

**Since 2017** Zettlr (Project Maintainer)

**Since 2024** Pandoc (Contributor)

## Languages

German (native), English (fluent, C1),  
Swedish (Moderate, B1), French (Moderate, A2)

## Programming Languages & Frameworks

<b>Scientific</b>	Python, R, Stata, matplotlib, numpy, pandas, PyTorch
<b>Front-End</b>	JavaScript/TypeScript, HTML, LESS/SCSS/CSS, Vue.js
<b>Back-End</b>	Node.js, PHP, Rust, C/C++