

# Hendrik Erz, PhD

## Researcher

Institute for Analytical Sociology (IAS)  
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## Contact

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## Research Interests

Political Sociology, Computational Social Science, Analytical Sociology, Computational Text Analysis/NLP, Legislative Debates, U.S. Congress, Science of Science, Ethics of AI

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## Education

- 2025**     **PhD in Analytical Sociology, Linköping University**  
  
              **On the Record: Understanding A Century of Congressional Lawmaking Through Speech and Vote Behavior**  
              Supervisors: Jacob Habinek (IAS, Linköping), Étienne Ollion (CNRS, Paris)
- 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

- Since 2025**     **Researcher in Analytical Sociology**  
                      Institute for Analytical Sociology (IAS)  
                      Linköping University
- 2020-25**     **PhD Student in Analytical Sociology**  
                      Institute for Analytical Sociology (IAS)  
                      Linköping University
- 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 (available upon request)

**Hendrik Erz.** Policymaking in Times of Crisis: Discursive Dynamics in U.S. Congress, 1960-1990. (Preprint available at SocArXiv: [https://doi.org/10.31235/osf.io/fxrzk\\_v1](https://doi.org/10.31235/osf.io/fxrzk_v1))

**Hendrik Erz.** Brittle Parties? Dissent, Breaking Ranks, and Party Power in U.S. Congress.

**Hendrik Erz.** Think Alike, Talk Alike? Measuring Issue-Level Polarization in Congressional Speech Using Community Detection-Algorithms. (*Under review*)

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

Alexandra Dirksen, Sebastian Giessler, **Hendrik Erz**. Ethics in Computer Science and Security Research.

### 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>

**2024** Alexandra Dirksen, Sebastian Giessler, **Hendrik Erz**, Martin Johns, Tobias Fiebig (2024). 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."*)

### Books and Book Chapters

**2025** **Hendrik Erz** (2025). On the Record: Understanding a Century of Congressional Lawmaking through Speech and Vote Behavior. Linköping University Press. <https://doi.org/10.3384/9789181182828>

**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.sozilogie.de/index.php/kongressband\\_2022/article/view/1693](https://publikationen.sozilogie.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 softwarebasierter 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

- 2025**     **Vote Defection and Party Pressure in U.S. Congress: Evidence from a Century of Vote and Speech Behavior**  
 IAS Annual Spring Retreat, Kolmården, Sweden
- 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 Policy-making**  
 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 Pressure in U.S. Congress**  
 International Conference on Computational Social Science (IC2S2)  
 Norrköping, Sweden

**Vote Defection and Party Power in U.S. Congress**  
Conference of the International Network of Analytical Sociologists (INAS)  
Columbia University, New York, USA

**Vote Defection and Party Power in U.S. Congress**  
Joint 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

- 2025**      **Summer Institute in Computational Social Science (SICSS)**  
Lecture and workshop in ethics for CSS  
Lecture and workshop in Computational Text Analysis
- Since 2024**      **Behavioral Mechanisms in the Social Sciences**  
M.Sc. program; Lecturer (course director: Rodrigo Martínez Peña); Linköping University
- Since 2022**      **Digital Strategies for the Social Sciences**  
M.Sc. program; Teaching Assistant (2022-2024) and Course Director (Since 2025); Linköping University
- 2023**      **Summer Institute in Computational Social Science (SICSS)**  
Lecture and workshop in 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 and newsletter; International Network of Analytical Sociologists (INAS)
- 2025**      Program Chair, International Conference on Computational Social Science (IC2S2), Norrköping
- 2025**      Summer Institute in Computational Social Science (SICSS), Norrköping, Sweden (with PI Jacob Habinek)

<b>2024</b>	Session Pretrained models and sociology: ethical, methodological, and theoretical considerations (at NSA 2024)
<b>2023</b>	Summer Institute in Computational Social Science (SICSS), Norrköping, Sweden (with PI Jacob Habinek)
<b>2022</b>	IAS PhD Retreat, Norrköping, Sweden
<b>2021-2022</b>	IAS Salon (Institute Reading Group)
<b>2021-2022</b>	PhD Representative, Institute for Analytical Sociology
<b>2016</b>	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)  
German Sociological Association (DGS)

## Referees

Prof. Dr. Marc Keuschnigg, University of Leipzig, Germany  
Prof. Dr. Jacob Habinek, Linköping University, Sweden  
Prof. Dr. Étienne Ollion, École Polytechnique, Paris, France  
Prof. Dr. Peter Hedström, Linköping University, Sweden

## Academic Software

**Since 2017** Zettlr (Project Maintainer)

**Since 2024** Pandoc (Contributor)

## Languages

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

## Programming Languages & Frameworks

**Scientific** Python, R, Stata, matplotlib, numpy, pandas, PyTorch, Slurm (HPC)

**Frontend** JavaScript/TypeScript, HTML/CSS, Vue.js

**Backend** Node.js, PHP, Rust, C/C++, Bash/ZSH, SQL