

Hendrik Erz

PhD Student

Institute for Analytical Sociology (IAS)
Linköping University

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Research Interests

Economic Sociology, Computational Social Science, Natural Language Processing, Large Language Models, Sociology of Culture, Computational Text Analysis

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

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| 2021 | Science of Science Summer School (S4), Syracuse University, New York, United States |
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Employment

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| 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

Peer-Reviewed Articles

- | | |
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| 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 IRBs. <i>In Proceedings NSPW'14</i> |
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- 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.

Manuscripts in Preparation

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

Erz, Hendrik. How Important are Floor Speeches for Policymaking? Economic Policymaking in U.S. Congress, 1980–1990.

Erz, Hendrik. Markets as Actors. Congressional speech between regulation and market freedom.

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 (“*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 (accessed 07.01.21) (“*Artificial Intelligence and data: An evaluation of software-based military intelligence.*”)
- 2020** Operative Porträts: eine Bildgeschichte der Identifizierbarkeit von Lavater bis Facebook. Von Roland Meyer. *Soziologiemagazin* 2020, 75–81. <https://doi.org/10.3224/soz.v13i1.07>
- 2020** The Status Quo is a Dystopian Nightmare. *engagée* 9, 20–25.
- 2019** Rezension zu Neoliberalismus – Wie alles anfing: Das Walter Lippmann Kolloquium, verfasst von Hendrik Erz (Review). *Soziologieblog*. <https://soziologieblog.hypotheses.org/12990> (accessed 10.23.19).
- 2019** Schulz, A., Erz, H., Riedl, V. How to make a *Soziologiemagazin*. *Soziologiemagazin* 1/2019. <https://elibrary.utb.de/doi/pdf/10.3224/soz.v12i2.08> (accessed 07.01.21)
- 2017** Zygmunt Bauman: Die Angst vor den anderen (Review). *Widerspruch* 70/2017, 164–168.

Invited Talks

- 2024** **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

- 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

- 2023** **Summer Institute for Computational Social Sciences (SICSS)**
Lecture and workshop on Computational Text Analysis
- 2021-2023** **Logic of Social Inquiry**
M.Sc.; Teaching Assistant; Linköping University
- 2022-2023** **Digital Strategies for the Social Sciences**
M.Sc.; Teaching Assistant; Linköping University
- 2018-2019** **Introduction to Political Science**
B.A.; Teacher; University of Bonn
- 2018** **Scientific Writing**
B.A.; Teacher; University of Bonn
- 2018** **Introduction to Karl Marx' Capital (Reading Course)**
B.A.; Course Director; University of Bonn
- 2015** **Tutorial: Methods for Quantitative Sociology**
B.A.; Teaching Assistant; University of Bonn

Service

- Reviewer**
- 2018-2020** Soziologiemagazin
- Editorial Board Member**
- 2020-2024** Head of Editorial Board, Soziologiemagazin
- Organization and Organizational Assistance**
- 2024** Session Pretrained models and sociology: ethical, methodological, and theoretical considerations (at NSA 2024)

2023-2024	Swedish Interdisciplinary Research School in Computational Social Science (SIRCSS), Norrköping, Sweden (with PI Jacob Habinek)
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)
2016	Student Research Symposium, University of Bonn, Germany
	PhD Representative
2021-2022	Institute for Analytical Sociology

Supervision

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)

Open Source

Since 2017 Zettlr Markdown Editor, Project Maintainer

Languages

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

Programming Languages & Frameworks

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