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

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

Peer-Reviewed Articles

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. *Forthcoming in NSPW'14*

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.soziologie.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)
Since 2022	Website administration; International Network of Analytical Sociologists (INAS)
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++