Johanna Einsiedler

POSTDOCTORAL RESEARCH ASSOCIATE

Digital Humanities Lab, University of Basel, Allschwilerstrasse 10, 4055 Basel, Switzerland
Center for Social Data Science, University of Copenhagen, Øster Farimagsgade 5A, 353 Copenhagen K, Denmark

✉ johanna_einsiedler@gmx.at | ⌂ www.johannaeinsiedler.com | ⦿ johanna-einsiedler

Professional Experience

Digital Humanities Lab, University of Basel *Basel, Switzerland*
POSTDOCTORAL RESEARCH ASSOCIATE *04/2025 - Present*
- Studying the predictability of individual behavior and its relation to personality traits
- LLMs for automatic information retrieval from scientific papers

Center for Social Data Science, University of Copenhagen *Copenhagen, Denmark*
POSTDOCTORAL RESEARCH ASSOCIATE *06/2025 - Present*
- Benchmarking LLM's performance on real-world occupational tasks
- Causal machine learning for heterogeneous treatment effect estimation

Center for Data, Law and Economics, ETH Zurich *Zurich, Switzerland*
VISITING RESEARCHER *10/2024 - 02/2025*

Institute for Data, Systems and Society, MIT *Camebridge MA, USA*
VISITING RESEARCHER *02/2024 - 05/2024*

Center for Social Data Science, University of Copenhagen *Copenhagen, Denmark*
PHD RESEARCHER IN SOCIAL DATA SCIENCE *10/2021 - 06/2025*
- Statistical methods for studying representativeness of survey data
- LLMs and natural language processing as scientifc tools to assist researchers
- Networkeconometrics & Peer effects

AustrianStartups *Vienna, Austria*
THINKTANK & OPERATIONS LEAD *02/2020 - 10/2021*
- Coordinating the outreach for Austria's biggest startup study
- Planning, recruiting & executing a one-year program for future entrepreneurial leaders
- Writing a weekly newsletter with >5,000 subscribers

Education

2021-2025	**PhD Social Data Science**, University of Copenhagen	
2018-2021	**MSc. Economics**, Vienna University of Economics and Business	
2014-2018	**BSc. International Business & Economics**, Vienna University of Economics and Business	

Publications

PUBLISHED

Cremers, J., Kohler, B., Frank Maier, B., Nymann Eriksen, S., **Einsiedler, J.**, Kølby Christensen, F., Lehmann, S., Dreyer Lassen, D. Hvas Mortensen, L., Bjerre-Nielsen, A. 2025. Unveiling the social fabric through a temporal, nation-scale social network and its characteristics. Nature Scientific Reports, 15, 18383.

Einsiedler, J., Lilleholt, L., Hvast Mortensen, L., Schild, C., Zettler, I. 2025. Nonresponse at three stages in personality research: Insights based on (Danish) register data of a representative potential participant pool. European Journal of Personality, 0(0).

Teutloff, O., **Einsiedler, J.**, Kässi, O., Braesmann, F., Mishkin, P., del Rio-Chanona, M. 2025. Winners and losers of generative AI: Early Evidence of Shifts in Freelancer Demand. Journal of Economic Behavior & Organization, Journal, 235.

Einsiedler, J., Cheng, Y., Papst, F., Saukh, O. 2021. Transferable Models to Understand the Impact of Lockdown Measures on Local Air Quality. 2021 17th International Conference on Distributed Computing in Sensor Systems (DCOSS), 2021.

Not Peer Reviewed

Trial, H., **Einsiedler, J.** 2025. The future of research dissemination: Innovation in publishing formats. MIT Science Policy Review.

Teutloff, O., **Einsiedler, J.**, Søndergaard Møller, F. 2024. Large Language Models and the Danish Labour Markets. Statistics Denmark Analysis.

In Review

del Rio-Chanona, M. **Einsiedler, J.** Self-Building Benchmarks: Using AI generated exams to understand LLM work capabilities. Brookings Working Paper.

Ullrich, S., **Einsiedler, J.** Digital Actor Categorization: Typologies and Computational Techniques for Analyzing Online Publics. Submitted to Social Science Computer Review. [Shared first authorship]

De Hesselle, L. C., **Einsiedler, J.**, Teutloff, O., Lilleholt, L. Hilbig, B., Moshagen, M., Zettler, I. Aversive personality and the RIASEC dimensions: Cross-national insights from self-reported interests and officially registered jobs. Submitted to the Journal of Personnel Psychology.

Einsiedler, J., Ledebur, K., Klimek, P., Hvas Mortensen, L. Generalizing Multimorbidity Models Across Countries: A Comparative Study of Austria and Denmark. Submitted to NPJ Digital Medicine.

In Prep

Einsiedler, J., Cummins, J., Jankowsky, K., Hernes, A., Schroeders, U., Lavelle-Hill, R. Assessing the Potential for Automated Article Coding and Data Extraction in the Social Sciences

Einsiedler, J., Appel, M., Bergmann, M., Lilleholt, L., Zettler, I., Lavelle-Hill, R. Psychology of Predictability: Is individual predictability trait-like?

Einsiedler, J., Harmon, N., Dreyer Lassen, D., Bjerre-Nielsen, A. Engineering Social Networks: How Initial Group Assignment Shapes Student Social Interactions

Awards, Fellowships, & Grants

2025	**Project Grant: AI and Truth Seeking**, Cosmos Institute & Foundation for Individual Rights and Expression (FIRE)	*$USD 4,000*
2024	**Travel Grant**, Torben og Alice Frimodts Fond	
2023	**Travel Grant**, William Demant Foundation	
2024	**Travel Grant**, Christian og Ottilia Brorsons Rejselegat	

Presentations

Fall 2025. *What Can We Automate (and How Well)? A Preregistered Evaluation of Open-Source LLM Pipelines for Automated Systematic Reviews* Paul Meehl Graduate School Meta Research Symposium 2025

Spring 2024. *Engineering Social Groups: How Organizational Group Assignment Affects the Social Fabric* Ninth Annual Conference on Network Science and Economics

Spring 2024. *Impact of ChatGPT on Online Labour Markets* AICE – AI, Cognition, and the Economy | Spring 2024 Workshop, Microsoft Research,

Summer 2023. *Persistence of Social Ties from Informal Group Interactions*. International Conference for Computational Social Science (IC2S2) 2023

Summer 2023. *Genralizability of Multimorbidity Patterns: A Cross Country Comparison* NetSci 2023.

Teaching Experience

Fall 2025   **Seminar on Generative AI in Social Science Research,** Sole Course Responsible, University of Basel
This master-level course covers new developments on the usage of generative AI — particularly large language models (LLMs) — as tools in social science research. Drawing on recent empirical studies, the focuses on the use of LLMs across the research pipeline: as tools for hypothesis generation, synthetic survey respondents, qualitative interviewers, behavioral simulation agents, causal inference assistants, and tools for text analysis. Students are encouraged to critically assess both the methodological potential and ethical challenges these tools pose, and engage hands-on with current frameworks, experiments, and applications.,

2022, 2023   **Master thesis supervision - Social Data Science,** University of Copenhagen
(1) Externalities of including special education students in regular classrooms on their classmates' math and reading scores, (2) Exploring Danish court rulings using quantitative methods: The evolution of the Danish legal language and predicting who is to pay the cost of a trial, (3) RlassoModels: High-Dimensional Estimation and Inference in Python, (4) Predicting Stadium Attendance in Danish Professional Football: A Time-Dependent Approach, (5) Identifying if LLMs can produce representative outputs that encompass non-dominant cultures in India,

Fall 2023   **Elementary Social Data Science**, Teaching Assistant, University of Copenhagen

Fall 2023   **Introduction Week Social Data Science Masters**, Organizor, University of Copenhagen

Fall 2020   **Fundamentals of Business Administration**, Adjunct Lecturer, Modul University Vienna

Outreach & Professional Development

2025-ongoing   **Member of the Faculty Assembly**, Representative for PostDocs & PhDs at the Digital Humanities Lab

2025   **EURIPS 2025 - Workshop on Epistemic Intelligence in Machine Learning**, Reviewer

2023-2024   **PhD Pod - The podcast by the PhD association of the University of Copenhagen**, Organizer & Co-Host

2023   **International Conference for Computational Social Science**, Reviewer

References

Andreas Bjerre-Nielsen (PhD Supervisor)
Associate Professor in Economics and Social Data Science , University of Copenhagen | abn@sodas.ku.dk

Ingo Zettler
Professor of Psychology , University of Copenhagen | ingo.zettler@psy.ku.dk

Abdullah Almaatouq
Douglas Drane Career Development Associate Professor in Information Technology and Management, MIT | amaatouq@mit.edu