

Lu Kalkbrenner (they/them)

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Summary

I'm am deeply committed to exploring the societal impact of technology. My research interests include responsible AI, social media monitoring and disinformation detection. I advocate for resilient democratic online communities from an intersectional feminist perspective.

Education

BSc. in Computer Science – TU Berlin	10.2015 – 08.2020
Logics, Web Technologies, Social Computational Choice, Operating Systems	
Thesis Coalitional Manipulation for Multiwinner Elections	
Exchange Semester – KAIST, South Korea	08.2018 – 12.2018
Graph Theory, Artificial Intelligence, Text Mining	
MSc. in Computer Science – TU Berlin	04.2020 – 08.2024
Machine Learning, DevOps, Database Technologies	
Thesis: Detection of Desinformation by Graph Neural Networks	
Exchange Semester – Télécom Paris, France	09.2022 – 03.2023
Deep Learning, NLP, Reinforcement Learning	

Working experiences

Teaching Assistant – TU Berlin	04.2017– 03.2020
Teaching discrete mathematics, Logics, and system programming	
Working Student – Rasa	09.2020 – 07.2022
Backend Software Engineer at an open source tool for conversational AI	
Student Researcher – TU Berlin, Nofake	12.2023 – 09.2024
Creating educational videos about AI and Desinformation	
Backend Software Engineer - CeMAS	10.2024 – now
Building and maintainance of social media monitoring infrastructure, implementing semantic search, topic modelling, and other tools	

Skills

Proficient: python, typescript, numpy, docker/docker-compose, ansible, mongodb, qdrant, neo4j, rasa, SQL, pytorch

Knowledgeable: TensorFlow, kubernetes, django, java, C

Tools and applications: UNIX, bash, Git, LaTeX, PGF/TikZ

Languages: German (first language), English C1, French B1

Other interests: reading, boxing, music

Publications and projects

publication at CeMAS – [Nach dem Ende von USAID: Desinformation und Verschwörungsnarrative über Entwicklungszusammenarbeit in Deutschland](#)

(Smirnova et al., 2026)

publication at ACL - [MisinfoTeleGraph: Network-driven Misinformation Detection for German Telegram Messages](#) (Kalkbrenner et al., WOA 2025)

hobby project – involvement in an IT collective to host services for social movements, e.g. hosting a fediverse instance (2025-now)

work project – semantic search on German telegram messages, multimodal search on youtube videos (2025-now)

work project – project lead of a research project about CIB-detection in youtube comments (2025)

volunteering – co-organizing the [Cables of Resistance Conference](#), a movement conference against big tech (2025-2026)

work project – leading the ADR/RFC process for database and ORM choices

volunteering – organizing meetups for women & queers in STEM (2019-2024)