Carlos Franzreb

✉ carlosfranzreb@gmail.com　　🔗 carlosfranzreb.github.io　　⌂ carlosfranzreb　　🎓 GScholar

I have experience in designing, training and evaluating machine learning models for speech, video and text, as well as communicating my work in oral and written form for audiences with various degrees of expertise.

Education

PhD　**Technical University of Berlin**　　　　　　　　　　　　　May 2022 – Apr 2026
- **Title:** understanding and evaluating speaker anonymization.

MS　**Technical University of Berlin**, Computer Science　　　　　Oct 2019 – Mar 2022
- **Courses:** machine learning, databases, algorithms.
- **Thesis:** Subject indexing for institutional repositories.

BS　**Technical University of Berlin**, Computational Engineering Science　　Oct 2015 – Oct 2019
- **Courses:** physics, math, electrical engineering and programming.
- **Thesis:** Evaluating FaaS as a data import agent.

Experience

DFKI, Researcher　　　　　　　　　　　　　　　　　　　May 2022 – Apr 2026
- Investigated the real-time application of audiovisual anonymization.
- Published a new anonymizer and improvements to the privacy evaluation.
- Developed two open-source projects (see below in *Projects*)
- Worked on improving the accent robustness of speech recognizers.

Fraunhofer FOKUS, Research assistant　　　　　　　　　　　June 2020 – May 2022
- Developed a data harvester with Vert.x (asynchronous programming).
- Research on knowledge graph embeddings and subject indexing.
- Visualized tweets with D3.js to analyze the spread of misinformation.

CLAAS 365FarmNet, Business developer　　　　　　　　　　May 2019 – May 2020
- Visualized the user journey in the company's software, identifying weaknesses.
- Developed a predictor for feature impact based on marketing personas.

Internships

deZem, IoT measurement and management　　　　　　　　　Sep 2018 – Dec 2018
Automated ticketing processes and helped with customer support.

The Cloud Group, web design　　　　　　　　　　　　　　Sep 2017 – Oct 2017
Designed SQL databases and learned full-stack development with PHP and JQuery.

Open-source projects

Speaker Anonymization Evaluation (SpAnE)　　　　　　　　github/spane ⧉
- Includes several anonymizers, datasets and a state-of-the-art privacy evaluation.
- Utility evaluation with pre-trained models (e.g. Whisper).

Real-time Audiovisual Anonymization System (RAVAS)　　　github/ravas ⧉
Audio and video are anonymized locally and can be used in video-calls.

myclimbz - CRUD app for logging climbs　　　　　　　　　github/myclimbz ⧉
Videos can be clipped on-device, assisted by an AI trained with climbing videos.