

Education

Johannes Kepler University

Linz, Austria

M.S. in Artificial Intelligence

Oct 2023 – expected Apr 2026

- GPA: 1.2 (Austrian scale: 1.0-5.0, 1.0 is best; equivalent to $\approx 3.8/4.0$)
- Thesis: *Robust AI-Generated Lyrics Detection* (Advisor: Prof. Markus Schedl)
- Visiting Student, *National Taiwan University of Science and Technology*, Taiwan (Spring 2025)

Johannes Kepler University

Linz, Austria

B.S. in Artificial Intelligence, with Distinction

Oct 2020 – Sep 2023

- GPA: 1.2 (equivalent to $\approx 3.8/4.0$)
- Thesis: *Simple and Efficient Task Transfer by Learning to Scale*. (Advisor: Dr. Navid Rekasaz)

Research Experience

Deezer Research

Paris, France

Supervisors: Dr. Elena Epure, Dr. Gabriel Meseguer-Brocal

Sep 2024 – Feb 2025

- Designed methods to robustly detect synthetic (AI-generated) lyrics from audio and text.

ETH Zürich, Institute for Machine Learning (Rycolab)

Zürich, Switzerland

Supervisors: Prof. Ryan Cotterell, Dr. Mario Giulianelli

Jul 2024 – Sep 2024

- Introduced frameworks to build any-to-any multimodal models, focusing on video understanding.

Johannes Kepler University, Institute of Computational Perception

Linz, Austria

Advisors: Prof. Markus Schedl, Dr. Navid Rekasaz

Mar 2023 – Jul 2024

- Developed various modular, efficient, and multilingual methods in NLP.

Professional Experience

Bosch

Linz, Austria

Data Scientist, Powertrain Solutions

Mar 2023 – Dec 2023

- Developed production-grade predictive maintenance models and created a company-wide MLOps curriculum.

Leftshift One

Graz, Austria

Machine Learning Engineer

Jul 2021 – Oct 2022

- Designed, built and deployed end-to-end machine learning solutions for various customers.

Publications

CONFERENCE PAPERS

Frohmann, M., Meseguer-Brocal, G., Schedl, M., & Epure, E. V. (2025). Double Entendre: Robust Audio-Based AI-Generated Lyrics Detection via Multi-View Fusion. In *Findings of the Association for Computational Linguistics: ACL 2025, Vienna, Austria*.

Frohmann, M., Epure, E. V., Meseguer-Brocal, G., Schedl, M., & Hennequin, R. (2025). AI-Generated Song Detection via Lyrics Transcripts. In *Proceedings of the 26th International Society for Music Information Retrieval Conference (ISMIR), 2025, Daejeon, South Korea*.

Masoudian, S., **Frohmann, M.**, Rekasaz, N., & Schedl, M. (2024). Unlabeled Debiasing in Downstream Tasks via Class-wise Low Variance Regularization. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP), Miami, USA*.

Frohmann, M., Sterner, I., Vulić, I., Minixhofer, B., & Schedl, M. (2024). Segment Any Text: A Universal Approach for Robust, Efficient and Adaptable Sentence Segmentation. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Miami, USA.

Frohmann, M., Holtermann, C., Masoudian, S., Lauscher, A., & Rekabsaz, N. (2024). ScaLearn: Simple and Highly Parameter-Efficient Task Transfer by Learning to Scale. In *Findings of the Association for Computational Linguistics: ACL 2024*, Bangkok, Thailand.

Holtermann, C., **Frohmann, M.**, Rekabsaz, N., & Lauscher, A. (2024). What the Weight?! A Unified Framework for Zero-Shot Knowledge Composition. In *Findings of the Association for Computational Linguistics: EACL 2024*, St. Julian's, Malta.

JOURNAL ARTICLES

Frohmann, M., Karner, M., Khudoyan, S., Wagner, R., & Schedl, M. (2023). Predicting the Price of Bitcoin Using Sentiment-Enriched Time Series Forecasting. *Big Data and Cognitive Computing*, 7(3), 137.

WORKSHOP PAPERS

Labrak, Y., **Frohmann, M.**, Meseguer-Brocal, G., & Epure, E. V. (2025). Synthetic Lyrics Detection Across Languages and Genres. In *Proceedings of the 5th Workshop on Trustworthy NLP (TrustNLP 2025)*.

Binder, P., Huber, M., & **Frohmann, M.** (2025). jkulinzstudents Submission to the MARIO Challenge 2024: Task 2. In *Image-Based Prediction of Retinal Disease Progression, MICCAI 2024 Workshops*. Springer, LNCS 15503.

Huber, M., Binder, P., & **Frohmann, M.** (2025). jkulinzstudents Submission to the MARIO Challenge 2024: Task 1. In *Image-Based Prediction of Retinal Disease Progression, MICCAI 2024 Workshops*. Springer, LNCS 15503.

SOFTWARE & OPEN SOURCE CONTRIBUTIONS

wtpsplit

Co-Main Contributor

- Official PyPI library for the EMNLP 2024 paper, *Segment Any Text*.

 [GitHub Repository](#)

2024

Honors & Awards

- 2020 – 2023 Yearly Merit Scholarship, *Johannes Kepler University, Linz*
- 2022 Winner, Student Challenge on Music Recommendation, *Johannes Kepler University*
- 2021 Winner, Student Team Challenge on Music Emotion Classification, *Johannes Kepler University*

Mentoring & Supervision

Hari Krishnan Kesavan

M.S. Thesis Co-Supervisor, Johannes Kepler University

- Thesis Topic: *Chunking Strategies for Retrieval-Augmented Generation (RAG)*.

Linz

2024 – 2025

Academic Activities

- 2025 **Peer Reviewer**, ACL Rolling Review (ARR)
- 2024–2025 **Conference Presentations**, Posters – ACL '24, EMNLP '24; Oral – ISMIR '25

Technical Skills & Languages

Programming

Frameworks

Tools

Human

Python, SQL, Linux/Bash

PyTorch, Transformers, Pandas, NumPy, Scikit-learn, PySpark

Git, Docker, MLFlow, Weights & Biases, Hadoop, ONNX

German (Native), English (Full Professional), French (Working), Mandarin (Intermediate)