



# Fabian Karl

PhD-Candidate

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## 📁 EMPLOYMENT HISTORY

09/2024 Ulm, Germany	<b>PhD-Candidate</b> Ulm University
2022 – 2024 Ulm, Germany	<b>Student Research Assistant in Data Science</b> Ulm University
2021 – 2022 Ulm, Germany	<b>Student Tutor</b> Ulm University

## 🎓 EDUCATION




2022 – 2024 Ulm, Germany	<b>M.Sc. Computer Science</b> Ulm University Grade: 1.2 Thesis title: Retrieval Augmented Information Extraction: Enhancing Language Models for Extracting Bibliographic Metadata from Heterogeneous Web Sources with CRAWLDoc.
2019 – 2022 Ulm, Germany	<b>B.Sc. Computer Science</b> Ulm University Grade: 1.3 Thesis title: Transformers are Short Text Classifiers: A Study of Inductive Short Text Classifiers on Benchmarks and Real-world Datasets.
2016 – 2019 Ehingen, Germany	<b>German Abitur</b> Technisches-Gymnasium Ehingen Grade: 1.2

## 🌐 LANGUAGES

German	● ● ● ● ●	English	● ● ● ● ●
French	● ● ● ● ●		

## 📖 RESEARCH PUBLICATIONS



2025	<b>Crawldoc: A dataset for robust ranking of bibliographic documents</b> SCOLIA F. Karl and A. Scherp, "Crawldoc: A dataset for robust ranking of bibliographic documents", SCOLIA@ECIR 2025.
2024	<b>Continual Learning for Encoder-only Language Models via a Discrete Key-Value Bottleneck</b> arXiv e-prints A. Diera, L. Galke, F. Karl, and A. Scherp, "Continual learning for encoder-only language models via a discrete key-value bottleneck" DOI: 10.48550/ARXIV.2412.08528. arXiv: 2412.08528.

2023	<b>GenCodeSearchNet: A benchmark test suite for evaluating generalization in programming language understanding</b>  Association for Computational Linguistics A. Diera, A. Dahou, L. Galke, F. Karl, F. Sihler, and A. Scherp, "GenCodeSearchNet: A benchmark test suite for evaluating generalization in programming language understanding" GenBench Workshop@EMNLP 2023, DOI: 10.18653/v1/2023.genbench-1.2.
2022	<b>Are We Really Making Much Progress in Text Classification? A Comparative Review</b>  arXiv e-prints L. Galke, A. Diera, B. X. Lin, et al., "Are We Really Making Much Progress in Text Classification? A Comparative Review" DOI: 10.8550/arXiv.220.0395. arXiv: 220.0395.
2022	<b>Transformers are Short-Text Classifiers</b>  Springer F. Karl and A. Scherp, "Transformers are Short-Text Classifiers" CD-MAKE 2023, Springer, ISBN: 978-3-031-0836-6. DOI: 10.1007/978-3-031-0837-3_7.

## ★ INVITED TALKS

2023	<b>Transformers are short-text classifiers</b> Presented for Ernst & Young (EY) Germany R&D.
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## CERTIFICATES

2025	<b>AI Agents Fundamentals</b>  Awarded by Hugging Face
2023	<b>Effective MLOps - Model Development</b>  Awarded by Weights & Biases.

## CODING

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|----------|-----------|----------------|
| • Python | • PyTorch | • Transformers |
| • Java   | • Git     | • LaTeX        |