

# Fabian Karl

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## Employment History

- 2024 – ···· **PhD-Student**, Ulm University, Germany.
- 2022 – 2024 **Student Research Assistant in Data Science**, Ulm University, Germany.
- 2021 – 2022 **Student Tutor**, Ulm University, Germany.

## Education

- 2022 – 2024 **M.Sc. Computer Science**, Ulm University, Germany.  
Grade: 1.2  
Thesis title: *Retrieval Augmented Information Extraction: Enhancing Language Models for Extracting Bibliographic Metadata from Heterogeneous Web Sources with CRAWLDoc.*
- 2019 – 2022 **B.Sc. Computer Science**, Ulm University, Germany.  
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 **German Abitur**, Technisches-Gymnasium Ehingen, Germany.  
Grade: 1.2

## Research Publications

### Conference Proceedings



- 1 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,” in *Proceedings of the 1st GenBench Workshop on (Benchmarking) Generalisation in NLP*, D. Hupkes, V. Dankers, K. Batsuren, *et al.*, Eds., Singapore: Association for Computational Linguistics, Dec. 2023, pp. 12–24. [DOI](#): 10.18653/v1/2023.genbench-1.2.
- 2 **F. Karl** and A. Scherp, “Transformers are short-text classifiers,” in *Machine Learning and Knowledge Extraction - 7th IFIP TC 5, TC 12, WG 8.4, WG 8.9, WG 12.9 International Cross-Domain Conference, CD-MAKE 2023, Benevento, Italy, August 29 - September 1, 2023, Proceedings*, A. Holzinger, P. Kieseberg, F. Cabitza, A. Campagner, A. M. Tjoa, and E. R. Weippl, Eds., ser. Lecture Notes in Computer Science, vol. 14065, Springer, 2023, pp. 103–122, ISBN: 978-3-031-40836-6. [DOI](#): 10.1007/978-3-031-40837-3\_7.

### Journal Articles

- 1 L. Galke, A. Diera, B. X. Lin, *et al.*, “Are We Really Making Much Progress in Text Classification? A Comparative Review,” *arXiv e-prints*, arXiv:2204.03954, arXiv:2204.03954, Apr. 2022. [DOI](#): 10.48550/arXiv.2204.03954. arXiv: 2204.03954 [cs.CL].

## Skills

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- Languages     Native proficiency in German, fluent in English with strong reading, writing, and speaking abilities, and basic skills in French.
- Coding       Python, Java, Git, HTML, CSS, JAVASCRIPT, SQL, XML, L<sup>A</sup>T<sub>E</sub>X, ...

## Miscellaneous Experience

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### Invited Talks

- 2023       **Transformers are short-text classifiers.** Presented for Ernst & Young (EY) Germany R&D.

### Certification

- 2023       **Effective MLOps - Model Development.** Awarded by Weights & Biases.