

# Ahmad Dawar Hakimi

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## WORK EXPERIENCE

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- 2024 - current      **ELLIS PhD Student & Research Assistant, LMU Munich <> University of Copenhagen**  
*Research Area: Interpretability, Natural Language Processing*  
*Supervisor: Hinrich Schütze, Isabelle Augenstein*
- Identifying the storage of Factual Knowledge within Large Language Models through Mechanistic Interpretability
  - Conducted knowledge probing throughout the training process of large language models to assess knowledge retention
- 2023 - 2023      **ML Engineer, InfAI - Institute for Applied Informatics, Germany**  
Research Project [KIRESys](#) - "AI-based Reference Design Processing for the Automated Development of Embedded Systems"
- Conducted information extraction of electrical engineering PDFs and keyword generation for electronic components, improving data accessibility, facilitating knowledge discovery, and enhancing search capabilities
  - Generated comprehensive summaries for technical documents
- 2019 - 2023      **Research Assistant, NLP Department at Leipzig University, Germany**  
Research Project [FAME](#) - "A Framework for Argument Mining and Evaluation"
- Leveraged syntactical information to improve the expressiveness of sentence embeddings, especially for sentences with similar structure
  - Identified contradictory items in a collection of arguments using external knowledge mined from Dung's argumentation framework
  - Developed a model (published at EMNLP 2021) for the task of [Same Stance Classification](#) - detecting if a pair of arguments have the same stance toward a topic
  - Introduced the novel task of [Same Sentiment Classification](#) (published at EMNLP 2021)
- 2018 - 2019      **Student Research Assistant, NLP Department at Leipzig University, Germany**  
Research Project [ILCM](#) - "Interactive Leipzig Corpus Miner"
- Implemented an R6 Cooccurrence Class, a customized logging function, updated and fixed the calculation of the context volatility, optimized and extended the Text Processing Pipeline, and added a Black- and Whitelist for the tokenization step in R
  - Designed test cases and technical documentation
- 2017 - 2018      **Student Assistant, NLP Department at Leipzig University, Germany**
- Organized the lab classes for the bachelor's course in "Algorithm and Data Structures"

## EDUCATION

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- 2024 - current      **Ludwig-Maximilians University Munich** PhD in Computer Science
- Interpretability and Knowledge Representation of LLMs
- 2019 - 2023      **Leipzig University** Master of Science, Computer Science, Final Grade: 1.2
- Master thesis: "Citance-Contextualized Summarization of Scientific Papers"
  - Developed a high-quality, large-scale dataset, "Context-SciSumm" for citance-contextualized summarization
  - Created and assessed multiple relevant citance context extraction strategies

- Generated contextualized summaries for scientific documents with LLMs such as LLaMa, Alpaca, Vicuna, Falcon, and GPT and evaluated their quality through a human and automatic evaluation (published at EMNLP 2023)

2020 - 2020	<b>Deutschlandstipendium</b> Scholarship <ul style="list-style-type: none"> <li>Funded by SpinLab and the Federal Ministry of Education and Research</li> <li>Awarded for outstanding academic performance</li> </ul>
2016 - 2019	<b>Leipzig University</b> Bachelor of Science, Computer Science, <u>Final Grade: 2.1</u> <ul style="list-style-type: none"> <li><u>Bachelor thesis</u>: “Using Syntactic Information for Sentence Embeddings”</li> <li>Leveraged syntactical information to improve the expressiveness of sentence embeddings</li> <li>Designed two different algorithms and evaluated them on NLP Downstream-Tasks</li> </ul>
2008 - 2016	<b>Friedrich-Schiller-Gymnasium</b> General Qualification for University Entrance

## PUBLICATIONS

2023	<b>Hakimi, A. D.</b> , Syed, S., Al-Khatib, K. & Potthast, M. (2023, November). <i>Citance-Contextualized Summarization of Scientific Papers</i> . In Findings of the Association for Computational Linguistics: EMNLP 2023.
2022	Meinecke, C., <b>Hakimi, A. D.</b> , & Jänicke, S. (2022). <i>Explorative Visual Analysis of Rap Music. Information</i> , 13(1), 10.
2021	Körner, E., Wiedemann, G., <b>Hakimi, A. D.</b> , Heyer, G., & Potthast, M. (2021, November). <i>On Classifying whether Two Texts are on the Same Side of an Argument</i> . In Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing (pp. 10130-10138).
2021	Körner, E., <b>Hakimi, A. D.</b> , Heyer, G., & Potthast, M. (2021, November). <i>Casting the Same Sentiment Classification Problem</i> . In Findings of the Association for Computational Linguistics: EMNLP 2021 (pp. 584-590).
2020	Baumann, R., Wiedemann, G., Heinrich, M., <b>Hakimi, A. D.</b> , & Heyer, G. (2020). <i>The Road Map to FAME: A Framework for Mining and Formal Evaluation of Arguments</i> . Datenbank-Spektrum, 20(2), 107-113.

## SKILLS & INTERESTS

Languages	German (Native / Bilingual Proficiency) Dari (Native / Bilingual Proficiency) English (Full Professional Proficiency) Latin (Limited Working Proficiency - I hold the German “Großes Latinum” degree, a certificate for advanced skills in Latin) French (Elementary Proficiency) Russian (Elementary Proficiency)
Technology	Python, PyTorch, Tensorflow, Huggingface, Numpy, Pandas, R, Docker
Interests	NLP, Large Language Models, Interpretability, Knowledge Representation, Machine Learning, Summarization, Argumentation, Text Classification, Object Detection
Activities	Running, Bodyweight Fitness, Road Cycling, Table Tennis, Basketball