

Dennis Aumiller

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Summary

Research Scientist with a **PhD in Computer Science**, working on human-centric evaluation of LLM capabilities. **Creator of multiple domain-specific benchmarks**, with focus on practical relevance. Experience as both an individual research lead and supervisor for research projects across the broader space of LLM applications. **Top contributor on Stackoverflow**, reaching more than 1.5 million people to date.

Experience

Cohere, Member of Technical Staff – Remote from Philadelphia, PA 09/2023 – present

- Core team member for North Mini Code, contributor to Command model family since Command R
- Research lead for Cohere's human annotation efforts, introducing internal benchmarks for text, vision, agentic coding, and audio evaluations. Used as core release signals by leadership during model launches
- Instigated multiple projects to reduce the average annotation handling time by over 30% while increasing annotation consistency, resulting in mid six-figure savings on annualized annotator spend
- Co-maintainer of our internal "eval-as-a-service" framework, used across the broader modeling organization

Amazon, Applied Scientist Intern – Berlin, Germany 08/2021 – 12/2021

- Training Seq2Seq networks to improve result coverage on long-tail query recommendations to 100%

Codefy GmbH, Founding Engineer (Part-time) – Heidelberg, Germany 09/2019 – 01/2021

- Co-leading the implementation of a legal document search solution, securing 200,000€ in seed funding

SAP, Software Engineering Intern – Walldorf, Germany 06/2018 – 09/2018

- Researching and implementing randomized matrix decomposition algorithms resulting in 1000x speedup

Education

Heidelberg University, Ph.D. Computer Science – Heidelberg, Germany 06/2019 – 07/2024

- **Thesis title:** "Towards a Unified Framework for Aspect-based Multi-document Text Summarization"

Heidelberg University, M.Sc. Applied Computer Science – Heidelberg, Germany 09/2017 – 05/2019

- **GPA: 4.0** (with distinction), minor in Computational Linguistics

University of Toronto, Exchange Year – Toronto, Canada 09/2017 – 04/2018

- **GPA: 3.95**, focus on algorithmic game theory and ML theory

Heidelberg University, B.Sc. Applied Computer Science – Heidelberg, Germany 10/2013 – 08/2017

Select Publications

Divide, Evaluate, and Conquer: Checklists Improve AI Feedback *under submission*

J. Cook, T. Rocktäschel, J. Foerster, **D. Aumiller***, A. Wang*

How Does Quantization Affect Multilingual LLMs? EMNLP 2024

K. Marchisio, S. Dash, H. Chen, **D. Aumiller**, A. Üstün, S. Hooker, S. Ruder

EUR-Lex-Sum: A Multilingual Dataset for Long-form Text Summarization EMNLP 2022

D. Aumiller*, A. Chouhan*, M. Gertz

Skills

Programming: Python, SQL, JavaScript

Languages: English (Fluent), German (Native)

Frameworks: Pytorch, Pandas, Huggingface, GCP, uv, Streamlit, Docker, PostgreSQL