RENATO SPRENGER-VUKOVIĆ

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SUMMARY

PhD candidate in Computer Science researching large language models, information extraction, and knowledge structuring. Author of multiple peer-reviewed publications at top-tier venues and experienced in teaching and supervising undergraduate and graduate research.

EXPERIENCE

Doctoral Researcher — Jan 2023 – Jan 2027
Heinrich Heine University Düsseldorf — *Düsseldorf, Germany*

- Conducted doctoral research on large language models and information extraction.
- Supervised Bachelor's and Master's thesis projects.

Freelance Machine Learning Engineer — Feb 2024 – Nov 2024
Deutscher Versand Service — *Remote*

- Designed and deployed a GDPR-compliant LLM-based customer service system, reducing manual workload.

Freelance Data Analyst — Jan 2025 – May 2025
Westdeutscher Rundfunk — *Remote*

- Developed a statistical filtering pipeline to detect anomalous streaming activity, reducing daily variance by up to 50%.

SKILLS

Programming	Python (advanced), Java, C++, Clojure
Machine Learning	PyTorch, HuggingFace, structured prediction, model evaluation
Mathematics & Statistics	Probability theory, statistical inference, hypothesis testing, optimization
Software Engineering	Object-oriented design, test-driven development, Git
Cloud	Google Cloud Platform, Microsoft Azure

EDUCATION

PhD in Computer Science, Heinrich Heine University — 2023 – 2026 (expected)
Large Language Models, Information Extraction

Master of Computer Science, Heinrich Heine University — 2019 – 2022

Bachelor of Computer Science, Minor in Physics — 2015 – 2019

SELECTED PUBLICATIONS

Text-to-SQL Task-oriented Dialogue Ontology Construction — TACL 2026
Less is More: Local Intrinsic Dimensions of Contextual Language Models — NeurIPS 2025
Post-Training Large Language Models via Reinforcement Learning from Self-Feedback — Under Review (ICML 2026)