Joseph Falcey

+49-174-4759611 | Stuttgart, DE | josephfalcey@gmail.com | LinkedIn

Summary

Computational Linguistics MSc student at the University of Stuttgart with 4 years of applied linguistic analysis experience and a technical focus on NLP, generative AI, and ML data pipelines. Bridging deep linguistic expertise with hands-on machine learning workflows.

Professional Experience

Analytical Linguist

KACE Company | Ashburn, VA | October 2021 – September 2025

- Conducted and relayed discourse and sociolinguistic analyses of spoken and written communications for forensic and investigative purposes, supporting legal and government agencies
- Collaborated with over 10 government agencies and law enforcement to ensure accurate monitoring, confidentiality, and adherence to investigative protocols in a fast-paced environment
- Produced hundreds of legally admissible transcriptions and structured linguistic datasets in Standard English, maintaining 95%+ inter-annotator/accuracy standards

---

Education

Master of Science in Computational Linguistics

University of Stuttgart | Stuttgart, Germany | In Progress | October 2025 – Present

Master of Science in Linguistics

University of Edinburgh | Edinburgh, UK | September 2019 – November 2020

Bachelor of Arts in Classics

Columbia University | New York, NY | 3.6 GPA | September 2016 – May 2018

Projects

- **Question Classification Model Benchmark | Python, PyTorch | GitHub**
  - Implemented and benchmarked multiclass, averaged, and hierarchical perceptron classifiers from scratch alongside a fine-tuned BERT model against majority and random baselines
  - Built an evaluation pipeline generating precision, recall, F1-scores, and confusion matrices to analyze error patterns across question categories

---

Skills

- **Programming:** Python, Bash
- **Tools:** PyTorch, NLTK, Linux
- **Specializations:** Natural Language Processing (NLP), Generative AI, Data Annotation
- **Languages:** English (Native), German (B1.2), Russian (B1.1)

Memberships & Training

- Member, Association for Computational Linguistics & Linguistic Society of America (2021–Present)
- Conference of the Nations of the Americas Chapter of the Association of Computational Linguistics (NAACL) (2025)
  - Attended workshop on low-resource NLP
- Participant, 33rd European Summer School in Logic, Language, and Information (2022)