

Lukas Hofbauer

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 [itsferguson](https://github.com/itsferguson)

Education

MSc	University of Innsbruck , Computer Science <ul style="list-style-type: none">GPA: 3.9/4.0performance-based scholarship 2024focus on generative AI	Innsbruck, Austria Sept 2023 – present
BSc	University of Innsbruck , Computer Science <ul style="list-style-type: none">GPA: 3.83/4.0 (graduated with honors)Awards: Performance Based Scholarship (2019-2023)Thesis: "Continual Learning in NLP"	Innsbruck, Austria Oct 2019 – Sept 2023

Projects

Extraction & Visualization of Geo Locations from Alpine Journal Corpus	2024
NER and NEL of location data from over 150 years of Alpine Journal articles. <ul style="list-style-type: none">Implemented location name extraction using spaCy and LLM-based methods.Mapped extracted locations to canonical locations using the GeoNames API.Developed a novel LLM-based approach to resolving ambiguous location names.Built an interactive map visualization using Leaflet and PostGIS.	
Bachelor Thesis: Continual Learning in NLP	2023
Developed a hybrid approach to continual learning in NLP and <ul style="list-style-type: none">Fine-tuned the T5 transformer model across multiple NLP tasks.Implemented and benchmarked various parameter-efficient fine-tuning methods (PETs).	
Web Development Project	2022
Developed a responsive website for a local hair salon. Led client collaboration and design specification discussions. - Gained experience in DNS management, SEO, and analytics.	

Experience

Japan Institute of Science and Technology , Lab Intern	Ishikawa, Japan Apr 2025 – Sept 2025
Conducting research as part of an international collaboration for my master's thesis, focusing on multi-hop QA and calibration techniques. <ul style="list-style-type: none">Developing multiple research papers on NLP and AI calibrationCollaborated with international researchers on deep learning methodologies	
University of Innsbruck , Lab Instructor	Innsbruck, Austria Oct 2023 – Mar 2024
Instructed the 'Functional Programming' course, introducing first-year students to Haskell and functional programming paradigms. <ul style="list-style-type: none">Designed and graded weekly assignmentsAssisted in final exam evaluationProvided one-on-one guidance to students	

Skills

Programming Languages: C, Java, JavaScript, Python, Haskell
Machine Learning Frameworks: PyTorch, TensorFlow, Hugging Face, LangChain
Libraries & Tools: Numpy, Pandas, Git, Docker, Jupyter, LaTeX, Postgres, PostGIS
Languages: English (C2), German (Native), Italian (B1)

Awards

Stanford Online , Machine Learning Specialization	Aug 2024
Amazon Web Services , Cloud Academy Graduate	Jan 2022
University of Innsbruck , Performance-Based Scholarship	2019 – 2024