

FABIAN DAVID SCHMIDT

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RESEARCH INTERESTS

Multilingual Representation Learning, Robust & Reproducible Cross-lingual Transfer, Few-Shot Learning

EDUCATION

PhD in Computer Science, University of Würzburg 2021 - 2024

Advisors: [Goran Glavaš](#) (University of Würzburg), [Ivan Vulić](#) (University of Cambridge)

Mannheim Master of Data Science (with honors), University of Mannheim 2017 - 2020

- **Grade:** 1.4* – ‘sehr gut’ (ECTS grade A) – equivalent to UK First Class Honours
- **Thesis:** 1.0*, “Incorporating Lexicons into Cross-Lingual Pre-Training for Machine Translation”

Bachelor of Finance, Frankfurt School of Finance & Management 2012 - 2016

- **Grade:** 1.4* (89%, top 10% of class)
- **Thesis:** 1.0*, “Demand uncertainty from customer risk & supplier top management incentive structure”
- **Integrated study program:** 6-8 weeks full-time rotations per semester across divisions of DZ BANK AG

* On a scale of 1.0 to 5.0 with 1.0 being the best possible grade

PUBLICATIONS

- [1] **Fabian David Schmidt**, Ivan Vulić, Goran Glavaš. [One For All & All For One: Bypassing Hyperparameter Tuning with Model Averaging for Cross-Lingual Transfer](#), Findings of EMNLP, 2023
- [2] **Fabian David Schmidt**, Ivan Vulić, Goran Glavaš. [Free Lunch: Robust Cross-Lingual Transfer via Model Checkpoint Averaging](#), Proceedings of ACL, 2023
- [3] **Fabian David Schmidt**, Ivan Vulić, Goran Glavaš. [Don't Stop Fine-Tuning: On Training Regimes for Few-Shot Cross-Lingual Transfer with Multilingual Language Models](#), Proceedings of EMNLP, 2022
- [4] **Fabian David Schmidt**, Ivan Vulić, Goran Glavaš. [SLICER: Sliced Fine-Tuning for Low-Resource Cross-Lingual Transfer for Named Entity Recognition](#), Proceedings of EMNLP, 2022
- [5] **Fabian David Schmidt**, Markus Dietsche, Simone Ponzetto, Goran Glavaš. [SEAGLE: A Platform for Comparative Evaluation of Semantic Encoders for Information Retrieval](#), System Demonstrations of EMNLP, 2019

WORK EXPERIENCE

NLP Research Intern, NEC Laboratories Europe Heidelberg (DE), Jan - May 2024

- **Project:** Pixel-based autoregressive language modelling for non-Latin script languages (host: [Chia-Chien Hung](#))

Machine Learning Engineer Intern, Friday Versicherung Berlin (DE), Jan - April 2019

- Reverse-engineered pricing of car insurers with boosted decision trees regression on millions of driver profiles
- Frameworks: data wrangling in pandas; time series regression with LightGBM, S3 integration with boto3

Private Equity Analyst Intern, Goldman Sachs Group London (UK), Sep 2016 - Feb 2017

- Evaluated opportunities to invest in European mid- to large-sized consumer retail, fintech and industrials companies
- Attending management meetings, conducting expert interviews, and reviewing due diligence documents

SKILLS

Programming	excellent proficiency in Python, Lua, Linux CLI, good familiarity with Rust, Bash, Git, Slurm
ML Frameworks	excellent proficiency in PyTorch(-Lightning), Huggingface transformers, Hydra, wandb
Languages	German (native) & English (native-level, TOEFL 112/120)

OPEN-SOURCE PROJECTS

[trident](#) [documented](#) & [tested](#) modular research framework integrating Lightning, hydra, and wandb
[telescope.nvim](#) co-maintainer of Neovim fuzzy finder (10K Github stars, 160K bi-weekly clones)