Fabian David Schmidt

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◇ Homepage ◇ LinkedIn ◇ Github ◇ Google Scholar

EDUCATION

PhD in Computer Science, *University of Würzburg*   01/2021 - 12/2024
Advisors: Goran Glavaš (University of Würzburg), Ivan Vulić (University of Cambridge)

Visiting PhD Researcher, *University of Cambridge*   05/2024 - 06/2024
    Sample-efficient massively multilingual adaptation of Large Language Models (host: Ivan Vulić)

Mannheim Master of Data Science (with honors), *University of Mannheim*   09/2017 - 08/2020
    Grade: 1.4* (ECTS grade A; equivalent to UK First Class Honours)

Bachelor of Finance, *Frankfurt School of Finance & Management*   08/2012 - 02/2016
    Grade: 1.4* (89%, top 10% of class)

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

SELECTED 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

PROFESSIONAL EXPERIENCE

Incoming NLP Research Intern, *Mila - Quebec AI Institute*   Montréal (CA), 09/2024 - 12/2024
    Research on multilingual multimodal language models (host: David Ifeoluwa Adelani)

NLP Research Intern, *NEC Laboratories Europe*   Heidelberg (DE), 01/2024 - 05/2024
    Pixel-based open-vocabulary autoregressive language modelling (hosts: Chia-Chien Hung & Carolin Lawrence)

Machine Learning Engineer Intern, *Friday Versicherung*   Berlin (DE), 01/2019 - 04/2019
    Reverse-engineered pricing of car insurers with boosted decision trees regression on millions of driver profiles
    Data wrangling in pandas; time series regression with LightGBM, S3 integration with boto3

Private Equity Analyst Intern, *Goldman Sachs Group*   London (UK), 09/2016 - 02/2017
    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

INVITED TALK

University of Saarland, Sep 2023   Robust and Scalable Cross-Lingual Transfer

SERVICE & ACTIVITIES

Reviewing   ARR, ACL, EMNLP, MOOMIN @ EACL
Teaching Assistance   Multilingual NLP, Algorithms & Data Structures, Information Retrieval
Open Source   (co-)maintainer of popular Neovim plugins (e.g., telescope.nvim) with 100-10K Github stars

SKILLS

Programming   excellent proficiency in Python, Lua, Linux CLI, good familiarity with Rust, Bash, Git, HPC with Slurm
ML Frameworks   excellent proficiency in PyTorch(-Lightning), Huggingface transformers, Hydra, wandb
Languages   German (native) & English (native-level, TOEFL 113/120)

RESEARCH INTERESTS

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