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   2020 - 2024
Research topics: Cross- & Multilingual Natural Language Processing
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"

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

PUBLICATIONS

[1] **Fabian D. 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
[2] **Fabian D. Schmidt**, Ivan Vulić, Goran Glavaš. SLICER: Sliced Fine-Tuning for Low-Resource Cross-Lingual Transfer for Named Entity Recognition, Proceedings of EMNLP, 2022
[3] **Fabian D. Schmidt**, Markus Dietsche, Simone P. Ponzetto, Goran Glavaš. SEAGLE: A Platform for Comparative Evaluation of Semantic Encoders for Information Retrieval, System Demonstrations of EMNLP, 2019

WORK EXPERIENCE

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

- **Project:** reverse-engineering pricing of car insurers with boosted decision trees on millions of driver profiles
- Wrote user-friendly CLI framework for time series regression with millions of driver profiles attached to AWS S3
- Frameworks: data wrangling in pandas; time series regression with LightGBM, S3 integration with boto3

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

- **Deal Experience:** Funds advised by Goldman Sachs bought Meilleurtaux.com from Equistone Partners
- 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`	framework integrating PyTorch(-Lightning), Hydra, Wandb & Huggingface
`telescope.nvim`	co-maintainer of Neovim fuzzy finder (9K Github stars, 160K bi-weekly clones)
`telescope-file-browser.nvim`	author of file manager extension for `telescope.nvim` (860 Github stars)