

Education

- 2021–2024 **PhD, Computer Science**, *University of Copenhagen*
Research Topics: Natural Language Processing, Machine Learning
Advisor: Prof. Anders Søgaard
- 2018–2020 **M.Sc., Computer Science**, *TU Darmstadt*, *Cumulative GPA: 1.34**
Focus: Natural Language Processing, Machine Learning, Data Mining, Artificial Intelligence
Subsidiary Subject: Business & Law
Thesis Supervisors: Jonas Pfeiffer, Prof. Iryna Gurevych
- 2015–2018 **B.Sc., Computer Science**, *DHBW Stuttgart*, *Cumulative GPA: 1.4**
ECTS Grade A

*On a scale of 1-5 with 1.0 being the best possible

Publications and Manuscripts

- [1] Constanza Fierro*, Laura Cabello Piqueras*, Jonas F. Lotz*, **Phillip Rust***, Joen Rommedahl, Jeppe Klok Due, Christian Igel, Desmond Elliott, Carsten Bøcker Pedersen, Israfel Salazar, and Anders Søgaard. Date recognition in historical parish records. In *ICFHR (to appear)*, 2022.
- [2] Daniel Hershcovich, Stella Frank, Heather Lent, Miryam de Lhoneux, Mostafa Abdou, Stephanie Brandl, Emanuele Bugliarello, Laura Cabello Piqueras, Ilias Chalkidis, Ruixiang Cui, Constanza Fierro, Katerina Margatina, **Phillip Rust**, and Anders Søgaard. Challenges and Strategies in Cross-Cultural NLP. In *ACL*, 2022.
- [3] **Phillip Rust**, Jonas F. Lotz, Emanuele Bugliarello, Elizabeth Salesky, Miryam de Lhoneux, and Desmond Elliott. Language Modelling with Pixels. *arXiv preprint*, 2022.
- [4] **Phillip Rust** and Anders Søgaard. Differential Privacy, Linguistic Fairness, and Training Data Influence: How Much Is Possible in Multilingual Language Models? *WIP preprint*, 2022.
- [5] **Phillip Rust***, Jonas Pfeiffer*, Ivan Vulić, Sebastian Ruder, and Iryna Gurevych. How Good is Your Tokenizer? On the Monolingual Performance of Multilingual Language Models. In *ACL*, 2021.
- [6] Gözde Gül Şahin, Yova Kementchedjhieva, **Phillip Rust**, and Iryna Gurevych. PuzzLing Machines: A Challenge on Learning From Small Data. In *ACL*, 2020.

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Work Experience

- 2018–2021 **DualStudy M.Sc. Program**, *DXC Technology*, Frankfurt, Germany
Technical consulting and software development on petabyte-scale data and compute platforms (OpenShift, MapR) for our client, a leading automotive company, to enable autonomous driving research and development.
- 2015–2018 **DualStudy B.Sc. Program**, *Hewlett Packard Enterprise*, Germany/USA
Integrated program that combined studies in computer science at DHBW Stuttgart with six internships in various departments and locations at Hewlett Packard Enterprise and DXC Technology. Included a summer internship in the area of high performance computing research and development with Harumi Kuno at Hewlett Packard Labs in Palo Alto, USA.

Volunteering

- 2019–2020 **AIESEC**, Darmstadt, Germany
Volunteering activity mainly consisting of the following components:
- Preparing foreign students for their professional traineeships in Germany
 - Taking care of the well-being and personal development of trainees in Germany
 - Building and maintaining relationships with companies offering traineeships in the area

Summer/Winter Schools

- 2021 **Lisbon Machine Learning Summer School (LxMLS)**, Virtual
2021 **Advanced Language Processing Winter School (ALPS)**, Virtual

Invited Talks

- 2022 **Amazon AI**, *Language Modelling with Pixels*, Remote
2022 **Pioneer Centre for AI**, *Language Modelling with Pixels*, Copenhagen, Denmark

Grants

- 2022 **EuroHPC compute grant**, “*Pixel Encoding of Language*”, with Desmond Elliott

Service & Professional Activities

Reviewing: ARR, ACL, EMNLP, MRL @ EMNLP, TiE @ ECCV, TL4NLP @ NeurIPS
Program Committee: Workshop for Multilingual Representation Learning (MRL)
Organization: Weekly NLP Section Reading Group, University of Copenhagen

Technical Skills

Programming: Python (excellent), Java and JavaScript (intermediate)
ML & NLP Frameworks: PyTorch, HuggingFace Ecosystem, NumPy, NLTK
Miscellaneous: Unix, Slurm, MapR, Kubernetes, Docker, Airflow, Elastic Stack, Ansible

Languages

German (native), English (fluent, TOEFL iBT 112), Japanese (elementary), Danish (elementary)

Personal Interests

Playing football, weightlifting, photography, travelling, playing the piano, cats, coffee

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