Yifan Wang

yifwang@slst.uni-saarland.de (+49) 15227932317 1997.12.28 Saarbrücken

Education

Universität des Saarlandes, Saarbrücken, Germany 2021.10 – Present

M.Sc. student in Language Science and Technology (LST), expected July 2023

Study Fields: Computational Linguistics, Neural Network and Application in NLP tasks, Speech Science, Natural Language Understanding/Generation using pre-trained language models, Machine Translation, Statistical Natural Language Processing etc.

Shanghai Jiao Tong University (SJTU), Shanghai, China 2016.09 – 2020.06

B.A. in Germanistics

Selected study fields: Linguistic modules, Basics of mathematics and statistics, Natural Language Processing, Data Mining, Data Structure and Algorithms etc.

Bachelor Thesis: Comparison of the Perspectives of the German and Chinese Media on COVID-19 on the Basis of a Quantitative Analysis of the Corpus (Supervisor: Prof. Likun. Fan)

Ruprecht-Karls-University Heidelberg (RKU), Heidelberg, Germany 2018.10 – 2019.03

Exchange semester in Germanistics in the Cultural Comparision

Experience

Automatic Drama Generation using GPT-2, Saarbrücken, Germany, 2022.04 – present

- Collect, clean and pre-process German drama data.
- Implement automatic generation of drama scripts by fine-tuning generative model GPT-2.
- Use a hierarchical process for outline and drama script generation.

Unsupervised Cantonese-Mandarin Machine Translation, Saarbrücken, Germany, 2022.04 – present

- Train an unsupervised machine translation system using Transformers.
- Exploit the similarity and divergence between dialects by information sharing on the word embedding level.
- Study the effect of different model architectures on the performance in the unsupervised machine translation setting.

Continuous Sign Language Recognition, Saarbrücken, Germany, 2022.04 – 2022.08

- Implement a continuous sign language recognition (CSLR) system on PHOENIX-2014 dataset using recurrent convolutional neural network.
- Raise training efficiency by introducing additional training losses and make network end-to-end trainable.

Graph-based Dependency Parser, Saarbrücken, Germany, 2021.10 – 2022.04

- Constructed a German language dependency parser using machine learning algorithm on UD-German Dataset.

Bachelor Students Research Projects, Shanghai, China 2018.04 – 2018.07

Study on the sequence of German grammatical structure acquisition of adult Chinese native speakers

- Studied how the language information processing mechanism affects the development of second language based on Pienemann's Processability Theory.
- Invited participants and conducted the experiment.

Skills

- Programming Languages: Python, C++, R.
- Natural Languages: Chinese (Native), English (Fluent), German (Intermediate).
- Machine Learning & NLP: pytorch, transformers, numpy, scikit-learn, nltk etc.