

Xiang LIU

Email: dom99@connect.hku.hk

Mobile: +852-97479004

EDUCATION

- **The University of Hong Kong** HK, CHINA
Master of Science(MSc) in Computer Science Sep 2022 - Aug 2023
- **George Mason University** VA, USA
Bachelor of Science in Computer Science; GPA: 3.71/4.0 Aug 2018 - Aug 2022
Honors/Awards: Dean's List (2018-2020)
Courses: Natural Language Processing, Visual Computing, Data Structures, Database Concepts
- **Henan University** Henan, CHINA
Bachelor of Engineering in Networking Engineering; GPA: 88/100; Rank: 4/292 Sep 2017 - Jun 2022

EXPERIENCE

- **HKUST Statistics and Machine Learning Research Group** HK,CHINA
Intern (Part-time) Dec 2022 - present
 - Contributed to the LMFlow project and focused on fine-tuning Large Language Models, including LLaMa and Vicuna.
 - Conducted research on the Chain-of-thought (COT) method to enhance Large Language Models' logical ability. Gained expertise in GPT API, COT project pipeline, and COT annotation while collaborating on an experiment utilizing uncertainty metrics in COT.
- **Baidu Research Cognitive Computing Lab** Beijing,CHINA
Intern (Full-time) Dec 2021 - June 2022
 - Worked on dependency parsing using the Open Information Annotation (OIA) method to convert sentences into directed acyclic graphs (DAGs).
 - Enhanced the performance of the OIA method for Chinese sentences by integrating node type and edge type specific to Chinese OIA, achieving parity with English OIA.
 - Gained research experience in open information extraction and logical reasoning.

COMPETITIONS

- **Kaggle — Feedback Prize - Predicting Effective Arguments Competition** Jun 2022 - Aug 2022
Team Leader — Silver Medal (Top 2%)
 - Developed baseline code, and designed various data preprocessing strategies, and model structures.
 - Implemented token classification instead of sequence classification, boosting rank and saving time on training and inference. Acquired proficiency in using Transformers training API.
- **Kaggle — U.S. Patent Phrase to Phrase Matching** Mar 2022 - Jun 2022
Solo — Bronze Medal (Top 9%)
 - Developed the entire code pipeline with various combinations of pre-trained language models and model structures.
 - Implemented multiple fine-tuning methods such as mean pooling, multi-dropout, and layer normalization.
- **CCF Collegiate Computer System & Programming Contest** Sep 2021 - Nov 2021
Team Member — Top 5%
 - Utilized data science and machine learning pipeline to predict consumer default vs non-default.
 - Employed LightGBM and XGBoost models and model stacking method. Mastered real-world data science challenges, machine learning pipeline, and team collaboration.

PROJECTS

- **Rumor Prediction Model for Microblog Epidemic** Mar 2021 - May 2021
Solo Project
 - Built a Covid-19 rumor prediction model based on the BERT pre-trained model, completing the deep learning model process.
 - Gained a profound understanding of the NLP project process by going through idea generation, data search, reference papers, code practice, model building, and article writing.

PROFESSIONAL SKILLS

- **Languages:** English, Mandarin
- **Computing Skills:** PyTorch, Git, Linux, NLTK