

Yihuai Hong

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Educations

Bachelor of Engineering, Computer Science
South China University of Technology, Guangdong, China

September 2020 – Present
Expected Graduation: June 2024

Relevant Courses

▪ Data Structure ▪ Algorithm design and analysis ▪ Probability Theory ▪ Natural Language Processing

Research Experience

Research Assistant July 2021 - Present
School of Computer Science and Engineering, South China University of Technology

- Independently completed and actively contributed to several research projects highlighted below

Project: ***Event Extraction via Prompt Learning*** Dec 2022 – Present
Faculty Supervisor: *Ziqian Zeng*

- Dynamic Early-exit, which is popular in the field of deep learning in recent years, we have made a study on the sample weighting during training to make a better trade-off between classification effectiveness and efficiency. We are currently working on a conference paper.

Project: ***Few-shot Relation Extraction via Prompt-free*** May 2022 – Aug 2022
Faculty Supervisor: *Ziqian Zeng*

- Improved and adapted the prompt-free algorithm and framework proposed by Facebook in ACL in 2021 for relation extraction tasks, which demonstrated enhanced performance .

Project: ***Event Extraction via Prompt Learning*** Feb 2022 –May 2022
Faculty Supervisor: *Ziqian Zeng*

- Built a trigger word detection algorithm for applications in event extraction, utilizing an attention mechanism to reshape the relationship and extraction features between the event type and the original text, followed by a token classification model to achieve effective detection.

Honors and Awards

Kaggle Silver medal (Top 5%) Kaggle Competitions, July 2021

- CommonLit Readability Prize:
Rate the complexity of literary passages for grades 3-12 classroom use

Kaggle Bronze medal (Top 6%) Kaggle Competitions, Mar 2022

- Feedback Prize - Evaluating Student Writing:
Evaluating Student WritingAnalyze argumentative writing elements from students grade 6-12

First Prize Scholarship South China University of Technology, Oct 2022

- Awarded to the top 10% of students in their majors in a combination of academic, moral and athletic qualities

Second Prize Scholarship South China University of Technology, Oct 2021

- Awarded to the top 5% of students in their majors in a combination of academic, moral and athletic qualities

Sanjihue Yue+ Scholarship

South China University of Technology, October 2022

- A corporate scholarship awarded to the top 2 of students in their majors in their major studies

Expertise and Research Interest

- Natural Language Processing
- Machine Learning
- Deep Learning
- Predictive Analytics

Proficient in various analytical tools and DL frameworks: Python, Matlab, SPSS, SQL, Tableau, Pytorch