

SU Hong Jin

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EDUCATION

The Chinese University of Hong Kong (CUHK)

Hong Kong

Bachelor of Science in Computer Science

Sep 2018-Present

CGPA: 3.73/4.0 **Major GPA:** 3.91/4.0

- **Related Courses:** -Computational Geometry (Postgraduate Course)
-Data Structure -Introduction to Operation System -Digital Logic and Systems -Software Engineering -Formal Language & Automata Theory -Fundamentals of Artificial Intelligence -Principles for Programming Language -Fundamentals of Machine Learning -Computers and Society

Toefl: 108, GRE: 333

Tsinghua University

Beijing, China

Exchange student

June 2020- July 2020

Publication

Taming Pre-trained Language Models with N-gram Representations for Low-Resource Domain Adaptation

Shizhe Diao, Ruijia Xu, **Hongjin Su**, Yilei Jiang, Yan Song, Tong Zhang.

ACL 2021, Main Conference

COURSE PROJECTS / RESEARCH EXPERIENCE

Research Intern in Natural Language Processing

July 2021-present

Instructor: Prof. Tao YU (HKU)

- Employ Text-To-Text Transfer Transformer (T5) to generate sql from given text and schema
- Pre-train T5 on general dataset, e.g., spider, to enable the model to learn sql grammar, and fine-tune the model on downstream tasks for domain adaptation

Research Intern in Natural Language Processing

Sept 2020-Jan 2021

Instructor: Prof. Tong ZHANG (HKUST)

- N-gram enhancement for better representation and interpretation of sentence meanings
- Tf-idf and PMI selection strategies for choosing meaningful and helpful n-gram sets in sentence classification
- Carefully go through code of transformers (Bert and Roberta) which are available in Huggingface
- Incorporate domain-specific knowledge with N-grams

Course Project of The Fundamentals of Artificial Intelligence

Sept 2020-Dept 2020

Instructor: Prof. LEUNG, Kwong-Sak (CUHK)

- Implement Q-learning, Deep Q learning networks for No Limit Holden poker game
- Go through reinforcement learning techniques and compare their features.

Research Intern in Information Theory and Group Testing

June 2020-Aug 2020

Instructor: Prof. Sidharth Jaggi (CUHK)

- General lower bounds and upper bounds for group testing number, independent of testing strategies.
- New non-adaptive testing strategies in clustering and markov chain models

Research Intern in Computer Vision

May 2020- Aug 2020

Instructor: Dr. Pavlos Protopapas (Harvard)

- Study the impact of different connections in ResNet
- Learn and compare advantages and disadvantages in different neural networks (ResNet, InceptionNet, VGGNet, etc.)

AWARD / SCHOLARSHIP

- Computer Science Outstanding Academic Award 2020-2021
- Engineering Dean's List 2020-21
- Pang Ching Cheung Scholarship 2020-21
- College Head's List 2019-20
- Engineering Dean's List 2019-20
- Dr P C Woo Memorial Scholarship 2019-20
- Elite Stream Scholarship 2018-19

SKILLS

- C (experienced)
- Python (experienced)
- Java (experienced)
- COBOL (elementary)
- Prolog (elementary)
- Deep Learning Framework: Pytorch, Tensorflow
- Tools: Github, LaTeX
- Experience of working with large cluster and remote servers
- Hobbies: Swimming, Badminton, Piano

FUTURE INTERESTS

- Domain adaptation and transfer learning in natural language processing
- Data augmentation for better model generalization ability