HONG JIN SU

Department of Computer Sience
Faculty of Engineering, The Chinese University of Hong Kong
+86 13779954679 | email: hjsu9@link.cuhk.edu.hk

EDUCATION

The Chinese University of Hong Kong   Hong Kong
Bsc in Computer Science   Sept 2018 – Present
- GPA: 3.91/4.00; admitted on basis of performance on national college admissions exam (0.4%)
- Selected awards: Dean's List in Engineering Faculty (top 5% of ~200 participants), College Head's List (top 5% of ~3,000 people)
- Selected to Elite Stream (top 5%, on basis of outstanding academic performance)

Tsinghua University   Beijing, China
Exchange Student   June 2019 – July 2019

PUBLICATIONS

Taming Pre-Trained Language Models with N-gram Representations for Low-Resource Domain Adaptation
Shizhe Diao, Ruijia Xu, **Hongjin Su**, Yilei Jiang, Tong Zhang.
ACL 2021, Main Conference

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
- Study example selection methods in fine-tuning pre-trained T5 model.
- Compare traditional fine-tuning paradigm with prompt-tuning with different model size.

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 features.
- Beat several advanced AI models and achieve great performance against human players.

Research Intern in Information Theory and Group Testing   June 2020-Aug 2020
Instructor: Prof. Sidharth Jaggi (CUHK)
- Study general lower bounds and upper bounds for group testing number, independent of testing strategies.
- Explore 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
- Study the advantages and disadvantages of different neural networks (ResNet, InceptionNet, VGGNet, etc.)

SELECTED AWARDS AND HONORS

- Computer Science Outstanding Academic Award   2021
- Engineering Dean's List   2021
- Pang Ching Cheung Scholarship   2020
- College Head's List   2020

- Engineering Dean's List   2020
- Dr P. C. Woo Memorial Scholarship   2020
- Elite Stream Scholarship   2020
- Elite Stream Scholarship   2019
- Second Place in University Badminton Contests   2019
- First Place in College Badminton Contests   2019
- Second Place in College Swimming Contests   2019

WORK EXPERIENCE

Web Engineering Group, BABYTREE GROUP.   Xiamen, China
Assistant Site Engineer   July 2019 – Sept 2020
- Implement new features and functions.
- Check potential bugs and problems reported by users

ADDITIONAL INFORMATION

Additional Professional and Extracurricular Experiences
From generation to generation, love relay   2019
- Take care of senior citizens in Shenzhen and provide necessary support.
- Organize interesting activities in order to make them feel happy.
Volunteer teacher   2019-present
- Teach children in underprivileged villages with the goal of broadening their worldviews.
The Mainland Student Association in United College   2019-2020
- Raised more than 5000 HKD each year from advertisement in social media for student activities as department secretary.
- Organize student activities including climbing, hiking, cycling, and cooking contests every week in order to boost student morale.

Future Research Interests
- Domain Adaptation and Transfer Learning in Natural Language Processing
- Controllable and diverse text generation

Interests
- Badminton, Swimming, Piano, Running, Hiking, Traveling

Computer and Language Skills
- Python, C, Java, C++, COBOL, Perl, ML, Prolog, HTML, CSS, MS Office, Linux, Github