Yuqing. Xie

Ph.D. Student in Computer Science (Natural Language Processing)

amyxie361@outlook.com | amyxie361 | Yuqing (Sherry) Xie | Research interest: Information Retrieval, Question Answering, Dialogue, Deep Learning.

Education

Cheriton School of Computer Science, University of Waterloo — *Waterloo, ON, Canada*

Ph.D. Student in Computer Science — *Sept. 2018 - Present*

- Supervisor: Prof. Ming Li and Prof. Jimmy Lin.

School of Mathematical Sciences, Fudan University — *Shanghai, China*

B.S. in Mathematics and Applied Mathematics — *Sept. 2014 - June. 2018*

- GPA:3.6/ Major 3.5/4.0(Overall)
- In the Honor Class of the National Basic Subject Top-notch Talent.
- Thesis: Biological Question Answering System based on Neural Network (Supervisor: Yiming Wei and Shanfeng Zhu)
- Selected Courses: Abstract Algebra, Real Analysis, Functional Analysis, Time Series, Information Theory
- Academic Seminars: Set Theory, Galois Theory, Communicative Algebra, Functional Analysis, Neural Network and Deep Learning.

Publication

Data Augmentation for BERT Fine-Tuning in Open-Domain Question Answering — *arXiv:1904.06652*

Wei Yang*, **Yuqing Xie***, Luchen Tan, Kun Xiong, Ming Li, Jimmy Lin (*Both authors contributed equally) — *2019*

End-to-End Open-Domain Question Answering with BERTserini — *NAACL, demo, arXiv:1902.01718*

Wei Yang*, **Yuqing Xie***, Aileen Lin, Xingyu Li, Luchen Tan, Kun Xiong, Ming Li, Jimmy Lin (*Both authors contributed equally) — *2019*

Experience

RSVP.ai — *Waterloo, ON, Canada*

Research Internship — *Nov. 2018 - Present*

- Constructed an end-to-end question answering system that integrates BERT with the open-source Anserini information retrieval toolkit both in English and Chinese and create new state of the art.
- Improved the system's performance by 10% exact match rate under open-domain setting using text augmentation.
- Tested the system's performance and provided real-time online service.
- Applied the system to domain specific document information retrieval.

Yitu-Tech — *Shanghai, China*

Machine Learning Algorithm Inter-ship — *Feb. 2018 - Aug. 2018*

- Improved the Single Shot MultiBox Detector model for object detection on car detection task.
- Implemented the HOG-SVM for digital recognition in car license detection.

School of Mathematical Sciences, Fudan University — *Advisor: Donghua Zhao*

Academic Project: Spread Trading Strategy Using Math Models — *Mar. 2016 - May. 2016*

- Implemented a framework of programmed trading system and simulated spread trading strategy.
- Forecasted future trend of short period stock prices of C opper Zinc spread trading using modelsinclu ding Autoregressive Moving Average Model , Kalman Filtering and Hidden Markov Model.
- Applied forecasting model for new trading strategy and achieved annual profit rate of 21%

Honors & Awards

In Canada

2018-2020 **Scholarship**, UW Grad Scholarship — *Waterloo, Canada*

In China

2015-2017 **Scholarship**, Outstanding Students of Fudan University — *Shanghai, China*

2016 **Honorable Mention**, COMAP's Mathematical Contest In Modeling — *Shanghai, China*

2011-2013 **First Prize (Best Female Participant in 2013)**, National Olympiad in Informatics — *Jiangsu, China*

2013 **First Prize**, Chinese Physics Olympiad — *Jiangsu, China*

2012 **First Prize**, Chinese Mathematical Olympiad — *Jiangsu, China*