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)

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*

Research 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.

Teaching

University of Waterloo *Waterloo, ON, Canada*

TEACHING ASISTANT
- Teaching assistant for CS 651/451(Data-Intensive Distributed Computing), CS 245 (Logic and Computation),CS 136 (Elementary Algorithm Design and Data Abstraction), CS 246 (Object-Oriented Software Development).

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*