Xueqing Wu

(217)-305-0509 ⋄ xueqing8@illinois.edu ⋄ shirley-wu.github.io

EDUCATION

University of Illinois Urbana-Champaign 08/2021 - Present
MS (thesis-based) in Computer Science. Advisor: Prof. Heng Ji

University of Science and Technology of China (USTC) 09/2016 - 06/2020
BS in Electronic Engineering and Information Science
GPA: 4.03/4.30 (Ranking: 1/363)

INTERNSHIP & RESEARCH

Bytedance AI Lab (Beijing, China) 07/2020 - 07/2021
Research Intern. Mentor: Hang Li

· Proposed and benchmarked a novel IE setting which extracts table-format information and requires no pre-defined schema. Adopted a seq2seq approach and employed constrained decoding and table embeddings to improve generation, which significantly outperforms NER and RE. [In submission]

Microsoft Research Asia (Beijing, China) 10/2019 - 07/2020
Research Intern. Mentor: Tao Qin

· Proposed a new sequence learning framework, which boosts a given main task using *temporally correlated tasks* as auxiliary training tasks. Designed a novel algorithm using RL to jointly train the task scheduler, and improved the baselines on four simultaneous translation tasks and a stock forecasting task. [1]

· Developed a simple but effective data augmentation method for machine translation based on sentence concatenation and improved the performance on nine datasets. [2]

NELSLIP Lab in USTC (China) 03/2019 - 06/2019
Research Assistant. Mentor: Prof. Jun Du

· Proposed two techniques for oriented object detection in aerial images: a novel tilt angle representation to avoid ambiguity, and an IoU calculation method to increase positive candidates of long objects in RPN stage. Won the first prize (32 in total) in ODAI Challenge-2019 held by CVPR. [3]

PUBLICATIONS

[1] **Xueqing Wu**, Lewen Wang, Yingce Xia, Weiqing Liu, Lijun Wu, Shufang Xie, Tao Qin, Tie-Yan Liu, *Temporally Correlated Task Scheduling for Sequence Learning*, ICML. 2021. Link

[2] **Xueqing Wu**, Yingce Xia, Jinhua Zhu, Lijun Wu, Shufang Xie, Yang Fan, Tao Qin, *mixSeq: A Simple Data Augmentation Methodfor Neural Machine Translation*, IWSLT Workshop. 2021. Link

[3] Yixing Zhu, Jun Du, **Xueqing Wu**, *Adaptive Period Embedding for Representing Oriented Objects in Aerial Images*, IEEE Transactions on Geoscience and Remote Sensing. 2020. Link

AWARDS & HONORS

First Prize and **Second Prize**, Challenge-2019 on Object Detection in Aerial Images 04/2019
Guo Moruo Scholarship (Highest honor at USTC, top 1%), USTC 10/2019
Tang Lixin Scholarship and **National Scholarship**, USTC 10/2018
Medal Prize, Software Track, International Genetically Engineered Machine Competition 11/2017