

XUEQING WU

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EDUCATION

University of Science and Technology of China

Sep. 2016 - Jun. 2020

BS in Electronic Engineering & Information Science

Member of Honors Program in Computer and Information Science and Technology

Member of Honors Program in AI

GPA: 4.03/4.30 (Ranking: 1/363)

EXPERIENCE

Simultaneous Translation

Dec. 2019 - Jul. 2020

Mentor: Tao Qin

Machine Learning Group, MSRA

- Trained the *wait-k* system with access to future information (i.e., larger k') during training
- Adopted REINFORCE algorithm to jointly train a controller that adaptively selects k'
- Improved 1.0 - 3.0 BLEU (under similar latency) on large WMT dataset and small IWSLT datasets

Long Document Modeling

Jul. 2019 - Sep. 2019

Mentor: Wang Wei

ScAi Lab, UCLA

- Designed sparsified Transformer based on Graph Attention Network to decrease memory consumption
- Proposed a semantic-aware pooling module to increase the receptive field
- Attained competitive results on IMDB dataset

Oriented Object Detection in Aerial Images

Mar. 2019 - Jun. 2019

Mentor: Jun Du

NELSLIP Lab, USTC

- Improved the representation of oriented objects based on the periodicity of tilt angle
- Proposed Length Independent IoU (LIoU) to increase the recall for long objects
- Won a 1st Prize and a 2nd Prize in Challenge-2019 on Object Detection in Aerial Images held by CVPR

PUBLICATIONS

Xueqing Wu, Yingce Xia, Lijun Wu, Shufang Xie, Weiqing Liu, Jiang Bian, Tao Qin, Tie-Yan Liu, *Learn to Use Future Information in Simultaneous Translation*, arXiv preprint (under review). 2020. [Link](#)

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 Place and **Second Place**, Challenge-2019 on Object Detection in Aerial Images Apr. 2019

Guo Moruo Scholarship (Highest honor at USTC, top 1%), USTC Oct. 2019

Meritorious Winner, MCM / ICM Jan. 2019

First Prize, Robogame, USTC Nov. 2018

Tang Lixin Scholarship and **National Scholarship**, USTC Oct. 2018

Second Prize, Anhui Province, National Undergraduate Electronic Design Contest Jun. 2018

Medal Prize, Software Track, International Genetically Engineered Machine Competition Nov. 2017

SKILLS

Languages: Python (proficient), C++ (competent)

Deep Learning: PyTorch (proficient) **OS:** Debian (proficient)