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: 4.06/4.30 (Ranking: 1/363)

RESEARCH EXPERIENCE

Data Augmentation for Neural Machine Translation Dec. 2019 - Mar. 2019
Research Intern *Machine Learning Group, MSRA*

- Generated new data by mixing multiple samples with little computational overhead
- Improved BLEU scores by a non-trivial margin on IWSLT datasets and low-resource FLORE datasets
- Drafted a paper which will be submitted to EMNLP 2020

Long Document Modeling Jul. 2019 - Sep. 2019
Research Intern *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
Research Intern *NELSLIP Lab, USTC*

- Improved the representation of oriented objects based on the periodicity of tilt angle
- Proposed Length Independent IoU (LIIoU) 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

Yixing Zhu, **Xueqing Wu**, Jun Du. *Adaptive Period Embedding for Representing Oriented Objects in Aerial Images*. IEEE Transactions on Geoscience and Remote Sensing. 2020 (To Appear). arxiv

HONORS

Guo Moruo Scholarship (Highest honor at USTC, top 1%), USTC Oct. 2019
First Prize and **Second Prize**, Challenge-2019 on Object Detection in Aerial Images Apr. 2019
Meritorious Winner, MCM / ICM Jan. 2019
Tang Lixin Scholarship, Tang Lixin Education Development Foundation Oct. 2018
National Scholarship, China Oct. 2018
Gold Medal, Software Track, International Genetically Engineered Machine Competition Nov. 2017

SKILLS

Languages Python: proficient; C++: competent
Deep Learning Tools PyTorch: proficient; Tensorflow: developing proficiency