

# XUEQING WU

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## EDUCATION

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**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

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**Task Scheduling for Sequence Learning**

Dec. 2019 - Jul. 2020

*Research Intern; Mentor: Tao Qin*

*Machine Learning Group, MSRA*

- Setup and formulated the problem of temporally correlated task scheduling for sequence learning
- Proposed to use reinforcement learning to jointly train a controller that adaptively selects training tasks
- Improved over the baselines on four simultaneous translation tasks and a stock forecasting task

**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

*Research Intern; 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 1<sup>st</sup> Prize and a 2<sup>nd</sup> Prize in Challenge-2019 on Object Detection in Aerial Images held by CVPR

## PUBLICATIONS

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**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](#)

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

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**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 Lixun 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