

# Shangqing Tu

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## EDUCATION

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Beihang University

Beijing, China

Bachelor of Computer and Science Technology

Sep. 2018-Jul. 2022

GPA: 3.8/4.0, 90.63/100

TOEFL: 103 (R29, L28, S22, W24)

Computer Skills: Proficient in C、Python、Java、C++、SQL、Verilog、PyTorch、Linux、MATLAB

## PUBLICATIONS

➤ Fangwei Zhu, **Shangqing Tu**, Jiaxin Shi, Juanzi Li, Lei Hou and Tong Cui.

*TWAG: A Topic-guided Wikipedia Abstract Generator.*

(ACL-IJCNLP 2021, accepted, main conference, long paper)

➤ Sizhe Zhang, **Shangqing Tu**, Zhipeng Sui, Shuo Gao.

*Piezoelectric And Machine Learning-Based Technique For Classifying Force Levels And Locations Of Multiple Force Touch Events.*

(IEEE FLEPS 2021, accepted, lecture presentation)

## RESEARCH EXPERIENCE

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**TWAG: A Topic-guided Wikipedia Abstract Generator**

Research Assistant, Advisor: Prof. Juanzi Li, Tsinghua University

May. 2020-Feb. 2021

- The topic of each input paragraph is detected by a classifier trained on existing Wikipedia articles to divide input documents into different topics.
- The topic distribution of each abstract sentence is predicted, the sentence from topic-aware representations is decoded with a Pointer-Generator network.
- The model is evaluated on the WikiCatSum dataset, and the results show that TWAG outperforms various existing baselines and is capable of generating comprehensive abstracts.

**Piezoelectric And Machine Learning-Based Technique For Classifying Force Levels And Locations Of Multiple Force Touch Events.**

Research Assistant, Advisor: Prof. Shuo Gao, Beihang University

Dec. 2020-Feb. 2021

- When fingers touch the piezoelectric panel, the charge generated by the PVDF membrane is amplified by the charge amplifier and becomes a voltage signal.
- After the voltage peaks for each channel have been acquired, three typical machine learning algorithms are employed to classify locations and force levels: LightGBM, Support vector machine (SVM), and Artificial neural network (ANN).

## HONORS

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Scholarships for Outstanding First-class Learning at Beihang University

2019

The Second Prize of National Physics Competition for College Students

2019

The First Prize of Beijing Mathematical Modeling Intercollegiate Competition

2020