

# ZHAOKAI WANG

Computer Science Major  
Shenyuan Honors College, Beihang University, P.R. China  
Double major in Economics at Peking University  
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## EDUCATION

### Beihang University

BS in Computer Science (Expected in June 2022)  
• GPA: 3.80/4.00

Beijing, China  
August 2018 – Present

## PUBLICATIONS

- Confidence-aware Non-repetitive Multimodal Transformers for TextCaps (AAAI 2021)  
**Zhaokai Wang**, Renda Bao, Qi Wu, Si Liu
- Video Background Music Generation with Controllable Music Transformer (ACM MM 2021 **Best Paper Award**)  
Shangzhe Di, Zeren Jiang, Si Liu, **Zhaokai Wang**, Leyan Zhu, Zexin He, Hongming Liu, Shuicheng Yan

## RESEARCH EXPERIENCE

### Beihang University (School of Computer Science and Engineering)

Research Assistant to Associate Professor Si Liu.

Beijing, China  
August 2019 – Present

- Researched on vision and language, focusing on Visual Question Answering and Image Captioning with reading comprehension.
- Won first place of CVPR TextCaps Challenge 2020 and third place of CVPR TextVQA Challenge 2020.
- One paper (as first author) accepted by AAAI 2021.
- Worked on video background music generation following Prof. Shuicheng Yan (ACM fellow) from National University of Singapore. One paper was accepted by ACM MM 2021 as Best Paper Award.

### Harvard University (Medical School)

Research Assistant to Associate Professor Luo Gang.

Remotely  
August 2020 – Present

- Surveyed on human eye datasets.
- Developed a model for detection of iris, pupil and eye region in photos shot by cellphone cameras.

### Chinese Academy of Sciences (Institute of Automation)

Research Assistant to Associate Professor Jing Dong.

Beijing, China  
July 2019 – August 2019

- Developed a Deep Learning project using CNN that can detect Deepfake videos with partners and tutor.
- Granted for Australian Innovation Patent.

## WORKING EXPERIENCE

### Sea AI Lab

Research Assistant to Prof. Shuicheng Yan and Prof. Jiashi Feng

Beijing, China  
August 2021 – Present

- Researching on video background music generation.

## SELECTED AWARDS AND HONORS

IJCAI-21 Video Competition Best Video Award	2021
First Prize of Lanqiao Cup National Programming Contest	2021
First Prize of the Thirtieth Fengru Cup Competition in Science and Technology	2021
Meritorious Winner of Interdisciplinary Contest in Modeling (MCM/ICM)	2021
Winner of CVPR TextCaps Challenge (as team leader)	2020
Third place of CVPR TextVQA Challenge (as team leader)	2020
Beihang University Scholarship for Learning - Second Prize (twice)	2019 and 2020
Beihang University Scholarship for Innovation - Second Prize	2020

## ADDITIONAL INFORMATION

### Extracurricular Experiences

- Vice-minister of Department of Publicity in Honors College Student Union (June 2019 – May 2020)
- Teaching Assistant of Fundamentals of Computers course (March 2021 – June 2021)
- Minister of IT Department in Microsoft Student Club of Beihang University (August 2021 – 2022)

### Language and Computer Skills

- Programming languages: Python, C/C++, Java, Javascript
- Scientific packages: Numpy, Pytorch, Tensorflow
- English: TOEFL 111 (S26), GRE 327+4.0, CET-4 669, CET-6 612