

# Minghao GUO 郭明皓

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## Biography

I am a third-year undergraduate student from Zhejiang University. My research interests include machine learning, computer vision and natural language processing.

I come from Ocean College and major in Ocean Engineering and Technology. Meanwhile, I am interested in Computer Science and AI. Therefore, in addition to my major courses, I have taken many core courses from the College of Computer Science (as detailed on my transcript) and actively participated in AI-related research projects. I am currently seeking PhD/MPhil opportunities in the field of deep learning.

## Research Experiences

### **2023.06 - present video editing**

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### **2023.02 - 2023.04 Robust Sentence-Level Evaluation**

under review

### **2022.07 - 2023.03 Underwater Overlapping Fish Detection Study (ZJU SRTP)**

Based on yolov5, we perform detection of underwater targets. Our work consists mainly in adding preprocessing, adding attention mechanisms and using pre-trained models.

### **2022.11 - 2022.12 Voice Conversion (CUHK AIST 2010 class project)**

We proposed a method for regenerating music based on some given music track. We use Multi-scale Multi-band DenseNet to separate the vocal and the background music, and then use the voice conversion method to change the two parts.

## Education

2020.09 - 2024.06 **B.S., Zhejiang University** Ocean Engineering and Technology

2022.09 - 2023.01 **Exchange, The Chinese University of Hong Kong** Office of Academic Links

## Honors & Awards

2022.11.10 China Harbor Scholarship

2022.01.08 First Prize of Zhejiang Province Student Physics Innovation (Theory) Competition

2021.12.31 National Scholarship

2021.12.01 First prize in the National University Mathematics Competition (non-mathematics group)

2021.08.31 Third Prize of National Zhou Peiyuan University Mechanics Competition (Individual Competition)

2020.12.01 First prize in the National University Mathematics Competition (non-mathematics group)

## Currently Focus On

- video editing
- TOEFL
- PhD/MPhil application