Minghao Guo

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🌐 https://minghaoguo20.github.io

Education

2020.09 – 2024.06	**B.S., Zhejiang University** Ocean Technology. GPA: *90.19/100* (Rank: 8/142)
2022.09 – 2022.12	**Exchange, The Chinese University of Hong Kong** Computer Science.

Research Experiences

2023.12 – now　Diffusion Model based ENSO Prediction
Mentor: *Prof. LinChao Zhu* @ZJU CCAI lab (graduation thesis project)
This is the project for my upcoming graduation thesis.

2023.07 – 2023.10　Diffusion Model based Video Editing
Mentor: *Prof. LinChao Zhu* @ZJU CCAI lab (intern)
We proposed a diffusion model based video editing method. Given **a texture reference image** and **a video sequence** as input, our method can **replace the texture of the video** with the texture of the reference image while preserving the structure of the video.

2023.02 – 2023.04　Robust Sentence-Level Evaluation
Cooperator: *Xiangru Tang, Yilun Zhao* @Yale (Remote RA)
To address the issue of **hallucinations and factual inconsistencies** in long text summary task in current language models, we proposed a set of solutions. The paper is currently under review.

2022.07 – 2022.10　Underwater Overlapping Fish Detection Study
Mentor: *Prof. Hui Huang* @ZJU (SRTP)
We enhance underwater target detection using YOLOv5 by incorporating preprocessing, attention mechanisms, and leveraging pre-trained models.

Selected Honors & Awards

Scholarship

2022	**China Harbor Scholarship**
2021	**China National Scholarship (Top 1.4%)**
	Zhejiang University Scholarship - First Prize (Top 3%)

Competition

2022	**First Prize** of Zhejiang Province Student Physics Innovation, Theory
2021	**Third Prize** of National Zhou Peiyuan University Mechanics Competition
	First prize in the National University Mathematics Competition, non-mathematics group
2020	**First prize** in the National University Mathematics Competition, non-mathematics group