

Minghao Guo

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Education




- 2024.08 – now  **M.Sc., MBZUAI** Computer Vision.
- 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**

Research Experiences




- 2023.12 – 2024.05  **Diffusion Model based ENSO Prediction**
Mentor: *Prof. LinChao Zhu @ZJU CCAI lab* (graduation thesis project)
We presents an ENSO prediction model combining deep learning and traditional methods, using Diffusion models, Neural Stochastic Differential Equations, and Fourier Neural Operators to improve prediction accuracy and reliability.
- 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)
Based on yolov5, we perform detection of underwater targets. Our work consists mainly in adding preprocessing, adding attention mechanisms and using pre-trained models.

Miscellaneous Experience

Scholarship

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

Competition

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

Miscellaneous Experience (continued)

2020  **First prize** in the National University Mathematics Competition, non-mathematics group