

Hao Chen

E-mail: chen_hao_zju@zju.edu.cn

TEL: +86 13296648985

Location: HangZhou, China

Birth: 2000.02

MainPage: <https://chenhao-zju.github.io/>

IELTS: 6.5 in Overall Band



Interests: Computer Vision, Few-Shot Segmentation, Weather Forecasting

EDUCATION

- **Master: Zhejiang University (QS2024: 44)** 2021.09-2024.03
Major: Astronautical Science(interest in Computer Science) **GPA: 4.29/5**
- **Bachelor: Shandong University (QS2024: 360)** 2017.09-2021.06
Major: Communication Engineering **Rank: 2/21 GPA: 89.7/100**

PAPER LISTS

- **Hao Chen**, Yonghan Dong, Zheming Lu, Yunlong Yu, and Jungong Han. "Self-Prompting Perceptual Edge Learning for Dense Prediction." *TCSVT*, 2023. **(JCR Q1 IF=8.4)**
- **Hao Chen**, Yonghan Dong, Zheming Lu, Yunlong Yu, Yingming Li, and Jungong Han. "Dense Affinity Matching for Few-Shot Segmentation." *Neurocomputing*, 2023. **(JCR Q2 IF=6.0)**
- **Hao Chen**, Yunlong Yu, Yonghan Dong, Zheming Lu, Yingming Li, and Zhongfei Zhang. "Multi-Context Interaction Network for Few-Shot Segmentation." *TOMM*, 2023. **(JCR Q1 IF=5.0)**
- **Hao Chen**, Yonghan Dong, Zheming Lu, Yunlong Yu, and Jungong Han. "Pixel Matching Network for Cross-Domain Few-Shot Segmentation." *WACV*, 2024.
- **Hao Chen**, Zheming Lu and Yangming Zheng. "Multi-similarity Enhancement Network for Few-Shot Segmentation," in *IEEE Access*, doi: 10.1109/ACCESS.2023.3295893. **(JCR Q2, IF=3.9)**
- **Hao Chen**, Zhe-Ming Lu, and Jie Liu. "A Monkey Swing Counting Algorithm Based on Object Detection," in *IEICE Trans. Information and Systems*, 2023. **(JCR Q4, IF=0.7)**

HONORS

- National Encouragement scholarship (**Rank 1/21**) 2018 2019 2020
- Outstanding Graduate of Shandong University (**Top 10%**) May 2021
- Outstanding Graduate Scholarship of Zhejiang university (**1/174 in both Master and Doctor**) March 2024
- Outstanding Graduate of Zhejiang Province (**5/174 in both Master and Doctor**) March 2024

WORK EXPERIENCES

- **CV algorithm Intern**, 2022.09-2023.03, **General Motors** (Traded as NYSE: **GM**, Fortune 13/500).
- **CV algorithm Intern**, 2022.04-2022.06, **Bytedance** (The parent company of **TikTok**).
- **CV algorithm Intern**, 2021.11-2022.03, MMU. Vision Center, **Kuaishou** (Traded as **SEHK: 1024**).
- **Application Development Intern**, 2021.09-2021.11, **MoGuJie** (Traded as NYSE: **MOGU**).

RESEARCH AND PROJECT

- **Self-supervised Visual Representation** MMU, KuaiShou
We design a model with higher accuracy and lower computation to encode visual signal. Finally, when GFLOPS were reduced to half of the vit-base, the model performance did not significantly degrade.
- **Few-Shot Segmentation** Zhongfei Zhang team in State University of New York
We design a model to fuse different contents from learnable branch and frozen backbone and achieve SOTA in 8 standard benchmarks for PASCAL and COCO datasets. The related work has been accepted by **TOMM**. Further explore lightweight few-shot segmentation models. With a parameter of 0.68M, the model shows good performance on Cross-class, Cross-dataset and Cross-domain tasks. The related works has been accepted by **WACV2024** and **Neucom**.
- **Self-Prompt Learning** ZheMing Lu team in ZheJiang University
Different from the general prompt learning with extra-prompt support, we try to design a model with the prompt support from the input of it. The related work has been accepted by **TCSVT**.
- **Weather Forecasting**
We try to build a global weather forecasting system with AI model. We design a **SKNO** model, which has been recorded by **Huawei official gitee repository**.

HOBBY

- Good at Singing and Table Tennis, especially Cantonese songs.
- I have been keeping running after work for seven years.