

# Zhe Chen

Nanjing University

Phone: (+86) 137-582-35351

Email: [chenzhe98@smail.nju.edu.cn](mailto:chenzhe98@smail.nju.edu.cn)

GitHub: <https://github.com/czczup>

## Education

---

**Nanjing University**, Nanjing, China

Sep. 2020 - Present

*M.D.* candidate in Computer Science and Technology, supervised by *Prof. Tong Lu*.

**Zhejiang University of Science and Technology**, Hangzhou, China

Sep. 2016 - Jun. 2020

*B.E.* in Software Engineering.

## Research Interests

---

Semantic Segmentation, Object Detection, Neural Style Transfer.

## Research Experiences

---

- **Ultra-high Resolution Neural Style Transfer** Mar. 2021  
Proposed a versatile framework for ultra-high resolution style transfer under limited memory resources, termed URST, which can be easily plugged in most existing style transfer methods. Theoretically, it supports style transfer of arbitrary high-resolution images. The paper is currently in the review stage.
- **Remote Sensing Semantic Segmentation** Nov. 2020  
Led a team to take part in *Remote Sensing Semantic Segmentation Task* in *National Artificial Intelligence Challenge 2020*, and tried to 1) solve the cross-domain problem and multi-level classification problem and 2) designed a lightweight network for real-time semantic segmentation. Our team finally secured the 1<sup>st</sup> place in the task.
- **Decorative Painting Customization Platform based on Neural Style Transfer** Feb. 2018  
This is a project of *Innovation and Entrepreneurship Training Program for College Students*. Major contributions include: 1) Developed a new business process of decoration painting customization based on neural style transfer. 2) Deployed models on Android devices. 3) Improved processing of high-resolution images.

## Contests

---

- National Artificial Intelligence Challenge (NAIC) 2020, Remote Sensing Semantic Segmentation Task, **1<sup>st</sup> Place, 1,000,000 RMB** Nov. 2020
- The 2<sup>nd</sup> China Gaofen Cup Beautiful Countryside Competition, Remote Sensing Crop Classification Task, **3<sup>rd</sup> Prize, 5,000 RMB** Apr. 2019
- National Undergraduate Service Outsourcing Competition 2018, Captcha Recognition Task, **2<sup>nd</sup> Prize, 2,000 RMB** May. 2018

## Honors and Awards

---

- Outstanding Graduate of Zhejiang Province May. 2020
- Zhejiang Provincial Government Scholarship Sep. 2019

## Publications

---

- [1] **Zhe Chen**, Wenhai Wang, Enze Xie, Tong Lu, and Ping Luo. Towards ultra-resolution neural style transfer via thumbnail instance normalization. *arXiv preprint arXiv:2103.11784*, 2021.
- [2] **Zhe Chen**, Weifeng Ma, Nanfan Xu, Caoting Ji, and Yulai Zhang. Siameseccr: a novel method for one-shot and few-shot chinese captcha recognition using deep siamese network. *IET Image Processing*, 14(12):2855–2859, 2020.