

# ZHE CHEN

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Homepage: <https://czczup.github.io/>

## EDUCATION

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- Nanjing University**, Nanjing 2020 - Present  
*Ph.D. candidate* in Computer Science and Technology, supervised by Prof. Tong Lu.
- Zhejiang University of Science and Technology**, Zhejiang 2016 - 2020  
*B.E.* in Software Engineering

## PUBLICATIONS

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

- [1] **Zhe Chen**, Wenhai Wang, Enze Xie, Tong Lu, Ping Luo. *Towards Ultra-Resolution Neural Style Transfer via Thumbnail Instance Normalization*, in AAAI, 2022.
- [2] **Zhe Chen**, Yuchen Duan, Wenhai Wang, Junjun He, Tong Lu, Jifeng Dai, Yu Qiao. *Vision Transformer Adapter for Dense Predictions*, preprint arXiv:2205.08534, 2022.
- [3] **Zhe Chen**, Wenhai Wang, Enze Xie, Zhibo Yang, Tong Lu, Ping Luo. *FAST: Searching for a Faster Arbitrarily-Shaped Text Detector with Minimalist Kernel Representation*, preprint arXiv:2111.02394, 2022.
- [4] **Zhe Chen**, Weifeng Ma, Nanfan Xu, Caoting Ji, Yulai Zhang. *SiameseCCR: A Novel Method for One-shot and Few-shot Chinese Captcha Recognition using Deep Siamese Network*, in IET Image Processing, 2020.

## RESEARCH EXPERIENCES

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**Vision Transformer Backbone** Oct. 2021 - Present  
Research Intern at Shanghai AI Laboratory (with Wenhai Wang and Jifeng Dai)

- I developed a simple yet powerful adapter to close the performance gap between vanilla transformers (*e.g.*, ViT) and dedicated transformers (*e.g.*, Swin) for downstream vision tasks.

**Ultra-high Resolution Neural Style Transfer** Dec. 2020 - Apr. 2021  
Collaboration with Ping Luo in HKU

- I presented a versatile framework for arbitrarily high-resolution style transfer under limited memory resources, which can be easily plugged into most existing methods. 1 paper accepted by AAAI22.

**Remote Sensing Semantic Segmentation** Aug. 2020 - Dec. 2020  
Collaboration with Ping Luo in HKU

- I led a team to take part in the Remote Sensing Semantic Segmentation Task in National Artificial Intelligence Challenge 2020 held by Shenzhen Municipal Government and Pengcheng Laboratory. Our team finally secured the 1<sup>st</sup> place and 1,000,000 RMB bonus in the task.

## AWARDS AND HONORS

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- National Artificial Intelligence Challenge (NAIC) 2020, Remote Sensing Semantic Segmentation Task, **1<sup>st</sup> Place, 1,000,000 RMB** 2020
- Outstanding Graduate of Zhejiang Province 2020
- The 2<sup>nd</sup> China Gaofen Cup Beautiful Countryside Challenge, Remote Sensing Classification Task, **3<sup>rd</sup> Prize, 5,000 RMB** 2019
- Zhejiang Provincial Government Scholarship 2019