

# ZHE CHEN

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## EDUCATION

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**Nanjing University**, Nanjing, China

Sep. 2020 - Present

*M.S. student in Computer Science and Technology, supervised by Prof. Tong Lu.*

## RESEARCH EXPERIENCES

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

### Scene Text Detection

Apr. 2021 - Sep. 2021

- Proposed a faster arbitrarily-shaped text detector, termed FAST, which has two new designs: (1) designed a NAS search space and reward function tailored for text detection, and (2) presented a minimalist kernel representation, as well as a GPU-parallel post-processing. Benefiting from them, FAST achieves a better trade-off between accuracy and efficiency than prior arts. The paper is currently under review.

### Ultra-high Resolution Neural Style Transfer

Dec. 2020 - Apr. 2021

- Presented a versatile framework for ultra-high resolution neural 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 under review.

### Remote Sensing Semantic Segmentation

Aug. 2020 - Dec. 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 remote sensing semantic segmentation. Our team finally secured the 1st place in the task.

## CONTESTS

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- National Artificial Intelligence Challenge (NAIC) 2020, Remote Sensing Semantic Segmentation Task, **1<sup>st</sup> Place, 1,000,000 RMB** Dec. 2020
- The 2<sup>nd</sup> China Gaofen Cup Beautiful Countryside Challenge, Remote Sensing Classification Task, **3<sup>rd</sup> Prize, 5,000 RMB** Apr. 2019

## HONORS AND AWARDS

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

## PUBLICATIONS

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- [1] **Zhe Chen**, Wenhai Wang, Enze Xie, Tong Lu, and Ping Luo. *Towards Ultra-Resolution Neural Style Transfer via Thumbnail Instance Normalization*, in 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*, in IET Image Processing, 2020.