

EDUCATION

Zhejiang University

Sep 2017 - Present

Robotics Class in Chu Kochen Honors College

Bachelor of Engineering

Double majors in **Control Science and Engineering** and **Mechanical and Electronic Engineering**

GPA: **3.97/4.00 90.3/100**

Zhejiang University Scholarship – **First Prize**

Zhejiang University Outstanding Student

Expected Date of Graduation: July 2021

PUBLICATIONS

Deep Snake for Real-Time Instance Segmentation [[arxiv](#)]

Sida Peng, Wen Jiang, **Huaijin Pi**, Hujun Bao, Xiaowei Zhou

CVPR 2020 Oral

RESEARCH EXPERIENCES

CCVL Lab, Johns Hopkins University

June 2020 - Present

- Advisor: Prof. [Alan Yuille](#)
- Neural architecture search
- Work with [Huiyu](#) and [Yingwei](#) as a virtual intern

3D Vision Group in CAD&CG State Key Lab, Zhejiang University

Jan 2019 - Present

- Advisor: Prof. [Xiaowei Zhou](#)
- Instance segmentation
- Used polygons to deform to object contours with Circular Convolution, fused the center feature to enlarge the receptive field and trained on Cityscapes and SBD datasets

Recognition Group in NGCLab, Zhejiang University

Oct 2018 – Present

- Advisor: Prof. [Yu Zhang](#)
- One-shot detection and instance segmentation
- Reproduced results of [Siamese Mask-RCNN](#) using mmdetection with a strong baseline
- Exploited dynamic convolution for classification in RPN, bbox and mask head to boost the performance and achieved 1.0 mAP higher

PROJECTS

Axial-DeepLab, Johns Hopkins University

July 2020

- Pytorch re-implementation of the [Axial-Deeplab](#).
- ImageNet classification is supported now and others are still on-going.
- See this [repo](#) for details.

Huaijin Pi

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Introduction of Artificial Intelligence, Zhejiang University

Oct 2019

- Image classification on Cifar-10 dataset using ResNet with 92.25% Accuracy.
- Global path planning with Q-learning in Python and OpenCV.

Enhanced Training of Robotics Technology, Zhejiang University

Aug 2019

- Controlled a real robot to move as the desired trajectory under different settings such as moving barriers and escaping from the siege of 8 robots with RRT algorithm, A* algorithm and potential field.

Robotics, Zhejiang University

May 2019

- Global path planning with RRT and A* on ROS platform.
- Controlled a manipulator to move around a pre-defined position on Matlab.

Introduction of Robotics, Zhejiang University

Aug 2018

- Designed a real robot to catch cylinders, carry the cylinders following the pre-defined path and place them in the right place.

CO-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCES

Star Volunteer

2018 – 2019

- Awarded by Zhejiang University
- Designed a magazine to introduce Zhejiang University to high school students and won the First Prize in Return-High-School Program

ADDITIONAL INFORMATION

- **Languages:** Chinese, English (TOEFL: 98)
- **Programming:** Python, C/C++, Pytorch, Matlab
- **Interests:** Travelling, jogging