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Qitao Zhao

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EDUCATION

Shandong University

2019.9 — 2023.6 (expected)

Bachelor in Communication Engineering

Overall GPA: 94.44/100 Major GPA: 95.95/100 Rank: 2/21 in Chongxin College

Relevant Courses: Machine Learning, Pattern Recognition and Deep Learning (95); Information Theory, Coding and Security (95);

Labs of Deep Learning (97); Digital Signal Processing (97); Digital Image Processing (100); Probability and Statistics (100);

Note: Members from Chongxin College are Top 5% engineering students selected across Shandong University in the first year.

I was picked mainly because of my outstanding academic performance. (I ranked 1/140 in my original department)

RESEARCH INTERESTS

- Computer Vision
 - Cross-view gait recognition
 - Vision transformer
 - 3D vision
- Interpretability of deep learning
- Signal processing in deep learning

PROJECT EXPERIENCES

Cross-view Gait Recognition

2021.9 — Present

Research Intern Advisor: Prof. Xianye Ben

DPAI Lab, Shandong University

- Introduction to domain: Read 20+ top-tier conference papers of recent years as introduction.
- Reproduction of SOTAs: Implemented the state-of-the-art models (e.g. GeitSet, GLN, GaitPart) on multi-GPUs.
- Novel model design: Long-range temporal motion relation modeling using vision transformer with strong inductive bias.
- Contest participation: I am now working on [HID 2022 \(International Competition on Human Identification at a Distance\)](#).

Course Project: Self-driving Assistance System with Car-detection

2021.9 — 2021.12

- Implemented YOLOv4 powered by HUAWEI Ascend AI processor (on Atlas 200 Developer Toolkit).
- Used FPGA to share 5G-network with Atlas 200 DK.
- Designed a container for hardware with 3D-printing.
- Designed a webpage using *Streamlit* to visualize detection results and system information plus weather condition and road map.
- Source code for the project has been released on [GitHub](#).

Course Project of DL Experiments: Real-time Style Transfer

2021.12

- Read conference papers of Style Transfer.
- Implemented the model based on *Zhang et al.* "Multi-style Generative Network for Real-time Transfer" in ECCV 2018 workshop.
- Inference on RTX 2080ti and transfer resulting images using *Socket*.
- Webpage design using HTML and VUE.

Online Course Learning: Stanford CS231n-2021

2021.7 — 2021.8

- Learned Deep Learning basics via videos and assignments.
- Read classic Deep Learning papers, e.g. LeNet-5, ResNet, GAN, Transformer.
- My solution to CS231n-2021 assignments has been released on [GitHub](#).

Summer Course Learning: Digital Image Processing

2021.7

Instructor: Prof. Xiaolin Wu

- Learned Digital Image Processing basics.
- Course Project: Demosaic using Linear Regression with Python.
- I got a full mark for impressive project achievements and presentation.

SELECTED AWARDS

National Scholarship

Award top 0.2% students national-wide by Ministry of Education of P.R. China, 2020

First-class Scholarship

Award students of excellent academic performance (top 5% in Shandong University)

SKILLS

- Tools and Languages
 - Python, C, Git, \LaTeX , Markdown, Microcontroller Unit
- Deep Learning Research
 - Pytorch, MATLAB, matplotlib, OpenCV, Numpy, Streamlit