

Junhao Zhang

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EDUCATION

Shandong University

B.S. Major: Electronic Information Engineering

Qingdao, Shandong, CHINA

September 2016 – June 2020

- Cumulative GPA: 91.1/ 100; Major GPA: 93.4/100; RANKING: 1/84
- Outstanding Bachelor's Thesis; Excellent Undergraduate Awardee

RESEARCH & PROJECT EXPERIENCE

Multimedia Lab, The Chinese University of Hong Kong

Hong Kong, CHINA

Research Assistant in Centre for Perceptual and Interactive Intelligence Limited -Prof. Dahua Lin Nov. 2020 – Present

3D Object Detection

- Maintaining and developing 3D detection open source code framework 

Shenzhen Institutes of Advanced Technology, Chinese Academy of Science

Shenzhen, CHINA

Research Assistant & Visiting Undergraduate Student -Prof. Yu Qiao & Prof. Yali Wang

July 2019 – Nov. 2020

3D Human Pose Estimation and Pointcloud Processing

- Adopted a novel graph convolution for 3D human pose estimation [1] and proposed a mesh calibration module [3]
- Developed a learning method based on graph signal processing for pointcloud classification and segmentation [2]
- Implemented above proposed algorithms in Python and C++

Shandong University

Qingdao, CHINA

Undergraduate Research Student - Prof. Hui Yuan

March 2018 – May 2019

Leader of National Science and Technology Innovation Project for College Students

Human Back Posture Electronic Identification System

- Designed a hardware sensor system to measure the posture of the human back
- Designed the underlying circuit to drive the sensor system
- Pending patent

PUBLICATIONS

- [1] Junhao Zhang, Yali Wang, Zhipeng Zhou, Tianyu Luan, Zhe Wang and Yu Qiao “Learning Dynamical Human-Joint Affinity for 3D Pose Estimation in Videos” -*Submitted to IEEE Transactions on Image Processing*.
- [2] Mutian Xu*, Junhao Zhang*, Zhipeng Zhou, Mingye Xu, Xiaojuan Qi and Yu Qiao “Learning Geometric Disentangled Representation for Complementary Understanding of 3D Object Pointcloud” -*Accepted by AAAI 2021* (*equal contribution).
- [3] Tianyu Luan*, Yali Wang*, Junhao Zhang*, Zhe Wang, Zhipeng Zhou and Yu Qiao “PC-HMR: Pose Calibration for Human Mesh Recovery” -*Accepted by AAAI 2021* (*equal contribution).
- [4] Mingye Xu, Zhipeng Zhou, Junhao Zhang and Yu Qiao “Indistinguishable Points in Semantic Segmentation of 3D Pointcloud” -*Accepted by AAAI 2021*.

AWARDS & SCHOLARSHIPS

Awards

- Outstanding Bachelor's Thesis Award in Shandong University (Top 1%) 2020
- Excellent Undergraduate Award in Shandong Province (Top 1%) 2020
- Advanced individual award for research and innovation of Shandong University 2019
- Award from Asia Supercomputer Community Student Challenge in the World, 2nd Place 2019
- Award from China National College Student Mathematical Modeling Contest, 1st Place 2018
- Award from China National College Student Optics and Electronic Design Contest, 3rd Place 2018

Scholarships

- National Scholarship of China (Top 1%) 2019, 2018
- Shandong University Academic Excellence Scholarship (Top 3%), 1st Class 2019, 2018

CAMPUS ACTIVITIES

Science and Technology Innovation Association, School of Information Science & Engineering,

Shandong University

2017 – 2019

Vice President

TECHNICAL SKILLS

Coding Languages: Java, Python, and C/C++

Operating Systems: Linux and Window

Developer Tools: STM32, K60, Raspberry Pi, Git, Docker, VS Code, Visual Studio, PyCharm, and Eclipse