

# Jinlu Zhang

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## EDUCATION

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### Wuhan University (WHU)

Sept.,2020-Present

Master of State Key Laboratory of LIESMARS, Major in Computer Applied Technology

#### Awards:

- ▶ **Top 10 Outstanding Freshman Student Prize of College**, WHU 2021

**Accumulative GPA:** 3.51/4.00 (Ranking in top3% among 51 students)

### Shandong University (SDU)

Sept.,2016-Jun.,2020

Bachelor of Engineering anticipated in June 2019, Major in Computer Science and Technology

**Accumulative GPA:** 88.17/100.00 (Ranking in top8% among 102 students)

#### Awards:

- ▶ Twice in a row University-level scholarship,SDU 2016-2018

**Programming Language:** C/C++/Javascript/Python/Matlab

**IELTS:** 6.5

## RESEARCH EXPERIENCE

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### 2D/3D Human Pose Estimation in Monocular Video

Sep.,2020-Present

*Served as the core member of research project*

- ▶ Propose an transformer encoder to effectively capture the temporal motion of different body joints over the long sequence for 3D human pose
- ▶ Design a fast single-stage 2D human pose estimation for multi-person in monocular data.

### 3D Human Skeleton Action Recognition in RGB Video

Dec.,2020-Nov.,2021

*Served as the core member of research project*

- ▶ A spatial attention pooling module is designed to adaptively capture important vertexes.
- ▶ A temporal dilated graph convolution module is exploited to expand the receptive field of temporal graph convolution
- ▶ A two-stream spatial attentive and temporal dilated graph convolutional network is constructed

### Finder Vein Recognition (FVR) Enhancement and Matching Algorithms

Oct.,2018-Jun.,2019

*Served as the core member of development team*

- Made modification on the traditional FVR system dealing with the influence of illumination and displacement
- Applied the Second-order image moments and machine learning to develop the FVR system by Matlab
- Achieved the feature extraction and matching

**Graduation Thesis Management System Design of Shandong University, Weihai** Sep.,2018-Feb.,2019

*Served as Core developer*

- Developed web pages with HTML5, CSS, JavaScript.
- Applying team copyright.

## **INTERNSHIP**

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**Tencent** Shenzhen Jan.,2022-Present

*Research Intern*

- Researching a fast and lightweight super-resolution algorithm running on mobile phones and laptops
- Preparing the paper for NeruIPS 2022

**Remark AI** London, UK Jan.,2021-Sep.,2021

*Research Intern*

- Developing the lightweight 3D human pose estimation system during **COVID-19**
- Optimizing inference speed by model pruning and distillation

**Huawei Technologies Co., Ltd.** Suzhou, China Aug., 2019-Oct.,2019

*Research Intern* in WLAN Development Department

- Having identified and automatically labeled of hand-drawn wireless hot spot map
- Having done room contour recognition and segmentation of interior plan under complex background
- Having optimized automatic indoor wireless hotspot planning algorithm

## **PUBLICATION**

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[1]J. Zhang, L. Lin, and C. Jin, "Self-supervised degraded document image binarization method based on second-order central moments and multi-scale network," in International Conference on Computer Vision, Application, and Design (CVAD 2021), Sanya, China, Dec. 2021, p. 20. doi: 10.1117/12.2626563.

[2]J. Zhang et al., "A spatial attentive and temporal dilated (SATD) GCN for skeleton - based action recognition," CAAI trans. intell. technol., p. cit2.12012, Mar. 2021, doi: 10.1049/cit2.12012.

[3]H. Peng et al., "The Multi-Modal Video Reasoning and Analyzing Competition," arXiv:2108.08344 [cs], Aug. 2021, Accessed: Sep. 10, 2021. [Online]. Available: <http://arxiv.org/abs/2108.08344>

## **ACTIVITIES**

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### **Campus Recruitment of Huawei Technologies Co., Ltd.**

Jan., 2018-Nov., 2018

*Served as president in recruitment association of 100 members*

- ▶ Held the Huawei Campus Job Fair and the publicity for the Elite Challenge Contest
- ▶ Visited the Research Institute of Huawei in Nanjing and Suzhou Research Institute

## **HONORS**

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Second-winner of track2 & track3 in ICCV 2021 Challenge MMVRAC	Sept., 2021
Top 10 Outstanding Freshman Student Prize of College, WHU	Jan., 2021
Titled the Superior Student of SDU	Jun., 2018
Titled twice in a row University-level outstanding student cadres of SDU	Sep., 2018 & Sep., 2019
Awarded the second prize in Shandong Contest District in the China Undergraduate Mathematical Contest in Modeling	Sept., 2018
Awarded the first prize in the Shandong University Student Robot Competition	Sept., 2018
Awarded the special prize in Shandong New Energy Software Innovation Contest	Dec., 2018
Awarded the second prize twice in the SDU scientific research projects	May., 2018 & May., 2019
Awarded the first prize in the Shandong Physical Innovation Contest	Oct., 2018
Awarded the second Prize in Shandong province in China Undergraduate Mathematical Contest in Modeling	Oct., 2018
Awarded as Successful Participant in MCM/ICM	2018