

# Chenyan Wu

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## Education

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### Pennsylvania State University

*Ph.D. in Information Sciences and Technology*

*Advisor: Prof. James Wang*

**State College, PA, USA**

*Aug. 2018 - Present*

### University of Science and Technology of China

*B.E. in Electronic Information Engineering, School of the Gift Young*

**Hefei, Anhui, China**

*Aug. 2014 - Jun. 2018*

## Publications

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- MEBOW: Monocular Estimation of Body Orientation In the Wild  
**Chenyan Wu**, Yukun Chen, Jiajia Luo, Che-Chun Su, Anuja Dawane, Bikramjot Hanzra, Zhuo Deng, Bilan Liu, James Z. Wang and Cheng-hao Kuo  
CVPR 2020
- PlacentaNet: Automatic Morphological Characterization of Placenta Photos with Deep Learning  
Yukun Chen, **Chenyan Wu**, Zhuomin Zhang, Jeffery Goldstein, Alison Gernand and James Wang  
MICCAI 2019

## Manuscripts

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- **Chenyan Wu**  
Neural Network Architecture Search Via Cell-wise Refining  
Thesis in Unveristy of Science and Technology of China

## Honors

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- National First Prize, Rank 15/30000+, The Seventh Chinese Mathematics Competition, Mar. 2016
- Honorable Mention, The Mathematical Contest in Modeling, Apr. 2017
- National Scholarship, University of Science and Technology of China (highest prize), Nov. 2015
- First Class Scholarship, twice, University of Science and Technology of China, 2016 and 2017
- Outstanding graduates, University of Science and Technology of China, 2018

## Research Experience

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### Pennsylvania State University

*Advisor: Prof. James Wang*

Extracting features of placenta images with deep learning

- Collect, process and label placenta images from hospital
- Segment placenta images using semantic segmentation network
- Identify pathological placentas and detect pathological parts in placentas

**State College, USA**

*Sept. 2018 - Present*

### Amazon Lab126

*Advisor: Dr. Jiajia Luo and Dr. Cheng-hao Kuo*

Human Body Orientation Estimation in the wild

- Build a large scale dataset for this human body orientation estimation
- Design a novel neural network for orientation estimation

**Bellevue, USA**

*May 2019 - Aug. 2019*

### SenseTime Research

*Advisor: Dr. Xinjiang Wang and Prof. Ping Luo*

**Shenzhen, China**

*Mar. 2018 - Jul. 2018*

Neural Network Architecture Search Via Cell-wise Refining

- Search neural network architecture by searching cells, inspired by ENAS
- Search the architecture on Cifar10 and ImageNet

**Faculty of Engineering and IT, University of Technology, Sydney**

**Sydney, Australia**

*Advisor: Prof. Stuart Perry*

*Jun. 2017 - Sept. 2017*

3D Object Detection on Point Sets Based on Deep Learning

- Study the latest 3D classification network - PointNet
- Design a new 3D object detection neural network using tensorflow, inspired by YOLO
- Use S3DIS Dataset to test and train my network

**Moe-Microsoft Key Laboratory, USTC**

**Hefei, China**

*Advisor: Prof. Zhibo Chen*

*Jun. 2016 - Sept. 2016*

Pedestrian Detection Based On Faster RCNN

- Use the Caltech pedestrian dataset to train the neural network
- The neural network structure is Faster RCNN
- Caffe as the deep learning framework.

## Skills

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- Languages: Python, Matlab, C++, C, VHDL
- Tools: Pytorch, TensorFlow
- Familiar with semantic segmentation networks (e.g. Deeplab) and object detection networks (e.g. Faster RCNN)