YI ZHANG

Johns Hopkins University, ◇ Baltimore, MD, USA 21210
yzh@jhu.edu ◇ edz-o.github.io

EDUCATION

Johns Hopkins University *09/2017 -*
Ph.D. student in Computer Science

Tsinghua University *09/2013 - 06/2017*
B.Eng. in Electronic Engineering

- **GPA**: 92.0/100
- **Ranking**: 10/240 (4%)
- **Average of Math & Physics related Courses**: 96.1/100

REASERCH EXPERIENCE

Department of Computer Science, Johns Hopkins University 09/2017 -
Advisor: Alan Yuille *Baltimore, MD*

· Research Assistant
· Deep Intermodal Video Analytics (DIVA) Project
· Developed a structured method for spatiotemporal activity detection in untrimmed surveillance videos with good interpretability.
· Developed a pipeline to generate photo-realistic synthetic human action sequences starting from motion captured human animation.
· Using synthetic videos to improve action recognition in real domain through adversarial training.
· Leveraging multi-task learning to improve generalization of action recognition algorithms.

Department of Computer Science, Johns Hopkins University 06/2016 - 09/2016
Advisor: Alan Yuille *Baltimore, MD*

· Research Assistant
· Created a synthetic data generation tool for stereo vision diagnosis.

State Key Lab. of Intelligent Technology & Systems, Tsinghua 03/2016 - 06/2017
Advisor: Xiaolin Hu *Beijing, China*

· Research Assistant

New Generation Network Technology & Application Lab, Tsinghua 11/2014 - 09/2015
Adviser: Yongfeng Huang *Beijing, China*

· Undergraduate Student Research Training

PUBLICATION

2018

Yi Zhang, Weichao Qiu, Qi Chen, Xiaolin Hu, and Alan Yuille. UnrealStereo: Controlling Hazardous Factors to Analyze Stereo Vision. In *International Conference on 3D Vision (3DV)*, Verona, Italy, 2018 (**Oral**)

Qi Chen, Weichao Qiu, **Yi Zhang**, Lingxi Xie, and Alan L Yuille. SampleAhead: Online Classifier-Sampler Communication for Learning from Synthesized Data. In *British Machine Vision Conference (BMVC)*, Newcastle upon Tyne, UK, 2018 (**Oral**)

2017

Weichao Qiu, Fangwei Zhong, **Yi Zhang**, Siyuan Qiao, Zihao Xiao, Tae Soo Kim, and Yizhou Wang. UnrealCV: Virtual Worlds for Computer Vision. In *Proceedings of the 25th ACM International Conference on Multimedia*, MM '17, pages 1221–1224, New York, NY, USA, 2017. ACM

TECHNICAL STRENGTHS

Proficient languages:	C/C++, MATLAB, Python
Deep learning frameworks:	Caffe, PyTorch, Tensorflow
Familiar environment:	Linux
Experience of use:	Git, Unreal Engine 4, Java

AWARDS AND HONORS

• Bank of Tokyo-Mitsubishi UFJ Scholarship	**Tsinghua University**	2016
• Huawei Scholarship	**Tsinghua University**	2015
• Excellence in Science and Technology Innovation Award	**Tsinghua University**	2015
• National College Students Physics Competition 1st Prize	**Beijing Physics Society**	2014
• Zheng Geru Scholarship	**Tsinghua University**	2014
• Freshmen Scholarship Grade 2	**Tsinghua University**	2013