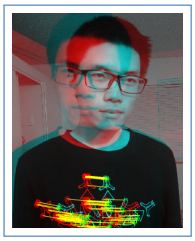

Yihui He

Interests

Vision — CNN Model Acceleration and Compression [4], Super Resolution [1], Recognition, Detection, Structure from Motion, Panorama

Network — HTTP [5], Security Game [3, 2], DNS probing

Education

2014–2018 **B.S.**, *Xi'an Jiaotong University*, China, *84/100*.
ranked 7/180

2016 spring **exchange student**, *University of California, Santa Babara*, CA, *4.0/4.0*.

Employment

now **Research Intern**, *Megvii Technology Inc.*, Beijing.
Model Acceleration for Deep Learning Models
supervised by Xiangyu Zhang and Jian Sun
- ICCV 2017 (first author) paper accepted [4]

2016 summer **Research Intern**, *Deepglint Inc.*, Beijing.
Gastrointestinal stromal tumor Image Segmentation with Computer Vision

2015 summer **Engineering Intern**, *DJI Innovations Science and Technology Co., Ltd*, Shenzhen.
build prototype intelligent robots and program embedded system

Experience

2016–2018 **Member**, *Baidu Big Data Lab Joint Cultivation*.
Data Mining research on large scale location data

2017 **Undergrad Researcher**, *Computer Vision and AI Lab* .
Super Resolution, preparing a paper [1]

2016 spring **Undergrad Researcher**, *Prof. Xifeng Yan's Data Mining Lab*, UCSB.
Image Recognition with Estimated Depth

2014–2015 **Undergrad Researcher**, *MoE Key Lab for Intelligent Network and Network Security*.
- Security Game, a paper in revision [3, 2]
- Network, a paper under review [5]

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Extracurricular

- Microsoft Beauty of Programming competition 2015, ranked 200/8000
- Zhihu Writer with 2k followers

Publications

[1] Y. Liang, Z. Yang, K. Zhang, **Y. He**, J. Wang, and N. Zheng. Single image super-resolution with a parameter economic residual-like convolutional neural network. ***arXiv*** *preprint arXiv:1703.08173*, 2017.

[2] X. Ma, **Y. He**, X. Luo, J. Li, and X. Guan. Vehicle traffic driven camera placement strategy for metropolis security surveillance. In ***P.R. Patent***, page 201610114763.8, 2016.

[3] X. Ma, **Y. He**, X. Luo, J. Li, and X. Guan. Vehicle traffic driven camera placement for better metropolis security surveillance. ***IEEE Intelligent Systems***, in revision.

[4] **Y. He**, X. Zhang, and J. Sun. Channel pruning for accelerating very deep neural networks. In ***International Conference on Computer Vision (ICCV)***, 2017.

[5] H. Zhao, X. Ma, S. Li, X. Luo, M. Shi, and **Y. He**. Boosting the performance of dynamic adaptive streaming over http in bandwidth-fluctuation networks: A pid-based approach. **NOSSDAV**, 2017, under review.

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