



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 Barbara*, 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
○ A paper under review at ICCV 2017 [4]
○ Preparing a paper for NIPS 2017
- 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]

Xi'an Jiaotong University – Xi'an – China

☎ +86 18702937918 • ✉ yihuihe@foxmail.com • 🌐 yihui-he.github.io
🔗 yihui-he

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 Computer Vision (ICCV)*, 2017, under review.
- [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.