



# Yihui He

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## Interests

- Vision CNN Model Acceleration and Compression [1, 2], Super Resolution [3], Recognition [1], Detection, Structure from Motion, Panorama
- AI Security Game [4, 5]
- Network HTTP [6], DNS probing

## Education

- 2016 spring **exchange student**, *University of California, Santa Barbara*, 4.0/4.0.
- 2014–2018 **B.S.**, *Xi'an Jiaotong University*, 81/100, 3.14/4.30.  
ranked 40/180

## Employment

- Now **Visiting Student**, *Johns Hopkins University*.  
Supervised by Alan Yuille
- 2016-2017 **Research Intern**, *Megvii Inc (Face++)*, Beijing.  
supervised by Xiangyu Zhang and Jian Sun
  - o ICCV 2017 (first author) paper accepted [1], TPAMI under review [2]
  - o keypoints aided pedestrian detection, translated into product
- 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

- Now **Reviewer**, *TIP (IEEE Transactions on Image Processing)*.
- 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 [3]
- 2016 spring **Undergrad Researcher**, *Prof. Xifeng Yan's Data Mining Lab*, UCSB.  
Image Recognition with Estimated Depth

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2014–2015 **Undergrad Researcher**, *MoE Key Lab for Intelligent Network and Network Security*.

- Security Game, a paper in revision [4, 5]
- Network, a paper under review [6]

2014 summer **2014 Robocup Junior Robot Soccer Championship**.

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## Languages

TOEFL 100

GRE 319+3.5

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## Extracurricular

- Microsoft Beauty of Programming competition 2015, ranked 200/8000
- Zhihu Writer with 2.6k followers

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## Publications

- [1] **Yihui He**, Xiangyu Zhang, and Jian Sun. Channel pruning for accelerating very deep neural networks. In *International Conference on Computer Vision (ICCV)*, 2017.
- [2] **Yihui He**, Xiangyu Zhang, and Jian Sun. Pruning very deep neural network channels for efficient inference. *IEEE transactions on pattern analysis and machine intelligence (TPAMI)*, 2017, under review.
- [3] Yudong Liang, Ze Yang, Kai Zhang, **Yihui He**, Jinjun Wang, and Nanning Zheng. Single image super-resolution with a parameter economic residual-like convolutional neural network. *TMM*, under review.
- [4] Xiaobo Ma, **Yihui He**, Xiapu Luo, Jianfeng Li, and Xiaohong Guan. Vehicle traffic driven camera placement for better metropolis security surveillance. *IEEE Intelligent Systems*, in revision.
- [5] Xiaobo Ma, **Yihui He**, Xiapu Luo, Jianfeng Li, and Xiaohong Guan. Vehicle traffic driven camera placement strategy for metropolis security surveillance. In *P.R. Patent*, page 201610114763.8, 2016.
- [6] Hongwei Zhao, Xiaobo Ma, Shuai Li, Xiapu Luo, Mawei Shi, and **Yihui He**. Boosting the performance of dynamic adaptive streaming over http in bandwidth-fluctuation networks: A pid-based approach. *ICME*, 2018, in submission.

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