

Yihui He

COMPUTER SCIENCE · 2ND YEAR UNDERGRAD

Xi'an Jiaotong University, China

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a student who have strong interest in research

Education

Xi'an Jiaotong University

SECOND YEAR UNDERGRADUATE IN COMPUTER SCIENCE, ANTICIPATED 2018

- rank 20/180
- related courses: Data Structure, C/C#, pSTAT

Xi'an, China

2014 - PRESENT

University of California, Santa Barbara

EXCHANGE STUDENT IN GRADUATE SCHOOL

- GPA 4.0/4.0
- related courses: advanced computer vision, deep learning, advanced machine learning
- rank 1 twice in CIFAR10/100 image recognition projects

CA, US

2016 Spring

Experience

Undergraduate research, computer network and security lab

RESEARCHER FOR SECURITY GAME

- submitted a paper to IEEE internet magazine, <Vehicle Traffic Driven Camera Placement for Better Metropolis Security Surveillance>, contact me if interested proposed algorithm, write code, do writing of experiment part

2016 winter

undergraduate research, computer vision and AI lab

RESEARCHER

- write code for shuttlecock detection in badminton video
- write code for multi faces tracking

2015 winter

Morgan Stanley, IT

SUMMER ANALYST INTERN

- write code for applications

Shanghai

2015 summer

ROBOCON competition, robot team

PROGRAMMER

- Build STM32 embeded system for robots
- write code for SDcard driver, ADC/DAC, encoder, motor

freshman year

high school robot team

LEAD PROGRAMMER

- Win world championship in Robocup Junior 2014, Brazil
- competator in Robocup Junior Brazil 2014, Nederland 2013, Mexico 2012

3 years

Projects

Computer Vision

I'M ENTHUSIASTIC ABOUT COMPUTER VISION, MY HANDS-ON PROJECTS ARE AS FOLLOW:

- Faster region convolutional neural network, from scratch
- residual neural network with tensorflow on CIFAR100
- understanding depth: neural network approach, with Kinect and ImageNet
- analysis of 1 layer NN in unsupervised learning on CIFAR10
- shuttlecock detection and tracking
- multi faces tracking
- panorama creator, from scratch
- tracking with active contour and particle filter
- edge detection from scratch
- Harris corner detector from scratch
- graph segmentation from scratch
- eigen faces from scratch

other projects

I'M ALSO INTERESTED IN AI, MACHINE LEARNING, COMPUTER NETWORK, EMBEDDED SYSTEM

- medical fraud detection with LSTM
- pacman with reinforcement learning [↗](#)
- probing mal urls caches of all DNS servers in China [↗](#)
- Decision tree from scratch [↗](#)
- suppliers information scrapper [↗](#), (sold to a small consulting company)
- Stackleberg security game on vehicle traffic
- infrared short distance telephone with ADC/DAC

Extracurricular

- 2015 **semi-final, 200/7000**, Microsoft beauty of programming
- 2015 **30,000+ visits**, CSDN Blogger [↗](#)
- now **7,000+ upvotes**, zhihu writer [↗](#)
- 2016 **TOEFL**, 100