

# Jinzhao Wang

Peking University  
EECS Department  
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## Research Interests

Computer vision, deep learning, artificial intelligence, machine learning with applications to image/video recognition, understanding and prediction.

## Education

**Peking University**, China. 2009 - present

Ph.D Candidate in Computer Science, 2013 - present

Advisor: Prof. Wen Gao and Prof. Wenmin Wang

B.S. in Electronics Engineering and Computer Science, 2009.9 - 2013.6

## Academic Experience

National Natural Science Foundation of China 61672063, China. 2017.3 - 2017.9

**Research Scientist**, Advisor: Prof. Ronggang Wang

Currently focus on the tasks of video prediction and imagination with collaborative deep learning

China Project 863 Project of 2015AA015905, China. 2015.3 - 2016.3

**Software Engineer**, Advisor: Prof. Wen Gao

Developed algorithms for action recognition and detection in videos

National Natural Science Foundation of China of 61370115, China. 2014.6 - 2014.9

**Software Engineer**, Advisor: Prof. Ronggang Wang

Exploited combination of traditional local spatiotemporal features and deep neural networks for action recognition

Shenzhen Peacock Project, China. 2013.9 - 2014.3

**Software Engineer**, Advisor: Prof. Wenmin Wang, Prof. Ge Li, Prof. Ronggang Wang

Proposed efficient image classification algorithms with adaptive pyramid pooling strategies

## Publications

**Jinzhao Wang**, Wenmin Wang, Ronggang Wang, Wen Gao. Beyond Monte Carlo Tree Search: Playing Go with Deep Alternative Neural Networks and Long-Term Evaluation. In **AAAI** 2017

**Jinzhao Wang**, Wenmin Wang, Ronggang Wang, Wen Gao. CSPS: An Adaptive Pooling Method for Image Classification. **IEEE Transaction on Multimedia**. 2016, 18(6):1000-1010

**Jinzhao Wang**, Wenmin Wang, Xiongtao Chen, Ronggang Wang, Wen Gao. Deep Alternative Neural Network: Exploring Contexts as Early as Possible for Action Recognition. In **NIPS** 2016

**Jinzhao Wang**, Wenmin Wang, Ronggang Wang, Wen Gao. Learning Class-Specific Pooling Shapes for Image Classification. In **ICME** 2015

**Jinzhao Wang**, Wenmin Wang, Ronggang Wang, Wen Gao. Image Classification Using RBM to Encode Local Descriptors with Group Sparse Learning. In **ICIP** 2015

**Jinzhao Wang**, Wenmin Wang, Ronggang Wang, Wen Gao. A Compact Shot Representation for Video Semantic Indexing. In **ICIP** 2015

Xiongtao Chen, Wenmin Wang, **Jinzhao Wang**, Weimian Li. Learning Object-Centric Transformations for Video Prediction. In **ACM Multimedia** 2017

Baoyang Chen, Wenmin Wang, **Jinzhao Wang**. Imagination on image: Synthesizing Videos with Transformation Generation. In **ACM Multimedia Workshop** 2017

Yihao Zhang, Wenmin Wang, **Jinzhao Wang**. Collaborative Networks for Person Verification. In **ACM Multimedia Workshop** 2017

Yihao Zhang, Wenmin Wang, **Jinzhao Wang**. Deep Discriminative Network with Inception Module for Person Re-Identification. In **VCIP** 2017

Hongmeng Song, Wenmin Wang, **Jinzhao Wang**, Ronggang Wang. Collaborative Deep Networks for Pedestrian Detection. In **BigMM** 2017. **Best Paper Award**

Xiongtao Chen, Wenmin Wang, Weimian Li, **Jinzhao Wang**. Attention-Based Two-Phase Model for Video Action Detection. In **CAIP** 2017

Yihao Zhang, Wenmin Wang, **Jinzhao Wang**. Aligned Local Descriptors and Hierarchical Global Features for Person Re-Identification. In **PCM** 2017

Zhihao Li, Wenmin Wang, Nannan Li, **Jinzhao Wang**. Tube ConvNets: Better Exploiting Motion for Better Action Recognition. In **ICIP** 2016

## Computer Skills

Programming languages: C/C++, Python, Matlab

Deep learning frameworks: Tensorflow, Torch7, Caffe

## Languages

English: Fluent, Chinese: Native

## Awards and Honors

National Scholarship of China 2015-2016

School Scholarship of Peking University 2013-2017

Silver Medal of National Graduate Smartcity Competition on Video analysis. 2015

Champion of PKU-THU Go Competition 2009-2013

## Specialities

6 *dan* level of Go (also known as the game of Go), with more than 10 years of professional training experience from the age of 5, winning several Chinese Go champions

## References

Wen Gao	Peking University	wgao@pku.edu.cn
Wenmin Wang	Peking University	wangwm@ece.pku.edu.cn
Huifang Sun	Mitsubishi Electric Research Laboratories	hsun@merl.com