

# BOWEN ZHANG

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No. 4800, Cao'an Highway, College of Electronics and Information Engineering

Tongji University, Shanghai, China

## EDUCATION

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### **Tongji University**

*Sept. 2014 - Present*

Master Candidate in Computer Engineering, Advisor: Prof. Hanli Wang.

Overall GPA: 5.0/5.0 (96.3/100)

### **Tongji University**

*Sept. 2010 - July 2014*

B.Eng. in Computer Science and Technology, Advisor: Prof. Hanli Wang.

**Maths Elite Class**, Minor in Mathematics.

Best Bachelor Thesis of Tongji University.

Overall GPA: 4.52/5.0 (90.23/100)

### **SIAT, Chinese Academy of Sciences**

*July 2015 - Present*

Research Center for Integrate Multimedia, Institute of Advanced Integration Technology

Visiting Student, Research Assistant, Advisor: Prof. Yu Qiao.

## RESEARCH INTERESTS

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### **Computer vision**

Action Recognition/Detection, Scene Classification.

### **Machine Learning**

Deep Learning, Knowledge Transfer

## RESEARCH EXPERIENCE

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### **SIAT, Chinese Academy of Sciences**

*July 2015 - Present*

*Visiting Student, Research Assistant*

- We developed a real-time action recognition algorithm with CNNs. Our algorithm achieved  $> 300fps$  (frame per seconds) processing speed with high performance. Our paper is accepted by CVPR'16.
- We developed a novel action recognition algorithm to achieve the state of the art performance on untrimmed video classification. We obtained the 1<sup>st</sup> at the 2016 ActivityNet Challenge on CVPR'16.

### **Tongji University**

*Sept. 2014 - Present*

*Master Candidate*

- We developed an action recognition algorithm to encode spatio-temporal scale information into Fisher Vector. Our paper is accepted by VCIP'15 as oral presentation.
- We designed an event detection algorithm to achieve the 1<sup>st</sup> place on The 2015 Affective Impact of Movie Task Challenge.

## PUBLICATIONS

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- 1 **Bowen Zhang**, Limin Wang, Zhe Wang, Yu Qiao and Hanli Wang, Real-time Action Recognition with Enhanced Motion Vector CNNs, *IEEE Conference on Computer Vision and Pattern Recognition*, Las Vegas, Nevada, USA, 2016.
- 2 Zhe Wang, Limin Wang, Yali Wang, **Bowen Zhang** and Y. Qiao, Weakly Supervised PatchNets: Describing and Aggregating Local Patches for Scene Recognition, arXiv:1609.00153.

- 3 Yuanjun Xiong, Limin Wang, Zhe Wang, **Bowen Zhang**, Hang Song, Wei Li, Dahua Lin, Yu Qiao, Luc Van Gool and Xiaoou Tang, CUHK & ETHZ & SIAT Submission to ActivityNet Challenge 2016, arXiv:1608.00797.
- 4 **Bowen Zhang** and Hanli Wang, Encoding Scale into Fisher Vector for Human Action Recognition, *IEEE Conference on Visual Communications and Image Processing*, Singapore, 2015. (**Oral Presentation**)
- 5 Yun Yi, Hanli Wang, **Bowen Zhang** and Jian Yu, MIC-TJU in MediaEval 2015 Affective Impact of Movies Task, *MediaEval 2015 Workshop*, Wurzen, Germany, Sept. 14-15, 2015.
- 6 **Bowen Zhang**, Yun Yi, Hanli Wang, and Jian Yu, MIC-TJU at MediaEval Violent Scenes Detection (VSD) 2014, *MediaEval 2014 Workshop*, Barcelona, Spain, Oct.16-17, 2014.

## CONTESTS

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The ActivityNet Challenge 2016 at CVPR'16: Untrimmed Video Classification. <i>Rank 1<sup>st</sup>.</i>	<i>July 2016</i>
LSUN Challenge 2016 at CVPR'16: Scene Classification. <i>Rank 1<sup>st</sup>.</i>	<i>July 2016</i>
The 2015 Affective Impact of Movies Task: Violence Task, <i>Rank: 2<sup>nd</sup>.</i>	<i>Sept. 2015</i>
The 2015 Affective Impact of Movies Task: Valence Task, <i>Rank: 2<sup>nd</sup>.</i>	<i>Sept. 2015</i>
The 2015 Affective Impact of Movies Task: Arousal Task, <i>Rank: 1<sup>st</sup>.</i>	<i>Sept. 2015</i>
The 2014 Affect in Multimedia Task: Main Task, <i>Rank: 4<sup>th</sup>.</i>	<i>Sept. 2014</i>
The 2014 Affect in Multimedia Task: Generalization Task, <i>Rank: 4<sup>th</sup>.</i>	<i>Sept. 2014</i>

## HONORS AND AWARDS

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Huawei Scholarship (9 recipients in Tongji University)	<i>2015</i>
Fellowship for Master Degree	<i>2014-present</i>
Best Bachelor Thesis of Tongji University (2 recipients in CS department)	<i>2014</i>
Be recommended for graduation school with excellent grade (10 recipients in CS department)	<i>2013</i>
Outstanding student of Tongji University	<i>2013</i>
Volkswagen Scholarship (3 recipients in CS Department)	<i>2012</i>
Second-class scholarship for Academic Excellence of Tongji University	<i>2012, 2013</i>
China Undergraduate Mathematical Contest in Modeling (CUMCM) <i>Province Third Prize</i>	<i>2012</i>
The Mathematics Contest in Modeling (MCM) <i>Honorable mention</i>	<i>2011</i>
Programming Contest of Tongji University <i>Second prize</i>	<i>2012</i>
Programming Contest of Tongji University <i>Third prize</i>	<i>2011</i>
Third-class scholarship for Academic Excellence of Tongji University	<i>2011</i>

## CODE SKILLS

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C/C++, Caffe, Matlab

## ENGLISH PROFICIENCY

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TOEFL: 103 (Reading: 30, Listening: 27, Speaking: 22, Writing: 24)

GRE: 322+3.0 (Verbal: 154, Quantitative: 168, Analytical Writing: 3.0)