

BOWEN ZHANG

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

Tongji University, Shanghai, China

EDUCATION

Tongji University

Sept. 2014 - Present

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

Overall GPA: 5.0/5.0 (96.38/100)

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

Computer vision

Action Recognition/Detection, Scene Classification.

Machine Learning

Deep Learning, Knowledge Transfer

RESEARCH EXPERIENCE

SIAT, Chinese Academy of Sciences

July 2015 - Present

Research Assistant, Visiting Student

- 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 1st 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 1st place on the 2015 affective impact of movie task challenge.

PUBLICATIONS

- 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

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

HONORS AND AWARDS

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

C/C++, Caffe, Matlab

ENGLISH PROFICIENCY

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

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