

BOWEN ZHANG

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

Tongji University

Sept. 2014 - Present

Master Candidate in Computer Technology, Advisor: Prof. Hanli Wang.
Overall GPA: 5.0/5.0 (96.3/100)

Tongji University

Sept. 2010 - Jul. 2014

B.Eng. in Computer Science and Technology, Advisor: Prof. Hanli Wang.
Maths Elite Class, Minor in Mathematics.
Overall GPA: 4.52/5.0 (90.23/100)
Best Bachelor Thesis of Tongji University.

RESEARCH INTERESTS

Computer Vision Action Recognition/Detection.
Machine Learning Deep Learning, Knowledge Transfer.

RESEARCH EXPERIENCE

SIAT, Chinese Academy of Sciences

Jul. 2015 - Present

Research Center for Integrate Multimedia, Advisor: Prof. Yu Qiao Visiting Student, Research Assistant

- We developed a real-time action recognition algorithm with CNNs. Our algorithm achieved > 300 fps (frames per second) 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

Multimedia and Intelligent Computing Lab, Advisor: Prof. Hanli Wang

Master Candidate

- We developed an action recognition algorithm to encode spatial-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 MediaEval 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 (CVPR'16)*, Las Vegas, USA, 2016.
- 2 Zhe Wang, Limin Wang, Yali Wang, **Bowen Zhang** and Yu Qiao, Weakly Supervised PatchNets: Describing and Aggregating Local Patches for Scene Recognition, arXiv:1609.00153. (Under review for IEEE Trans. on Image Processing)
- 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, *ActivityNet Large Scale Activity Recognition Challenge, CVPR'16 Workshop*, Las Vegas, USA, 2016.

- 4 **Bowen Zhang** and Hanli Wang, Encoding Scale into Fisher Vector for Human Action Recognition, *IEEE Conference on Visual Communications and Image Processing (VCIP'15)*, 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, 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, 2014.

CONTESTS

The ActivityNet Challenge 2016 at CVPR'16: Untrimmed Video Classification. <i>Rank 1st.</i>	<i>Jul. 2016</i>
LSUN Challenge 2016 at CVPR'16: Scene Classification. <i>Rank 1st.</i>	<i>Jul. 2016</i>
MediaEval'15 Affective Impact. Violence: <i>Rank: 2nd.</i> ; Valence: <i>Rank: 2nd.</i> ; Arousal: <i>Rank: 1st.</i>	<i>Sept. 2015</i>
MediaEval'14 Affect in Multimedia. Main: <i>Rank: 4th.</i> ; Generalization: <i>Rank: 4th.</i>	<i>Sept. 2014</i>

HONORS AND AWARDS

National Graduate Scholarship of China	<i>2016</i>
Huawei Scholarship (9 recipients in Tongji University)	<i>2015</i>
Fellowship for Graduate Study	<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>
Scholarship for Academic Excellence of Tongji University	<i>2011, 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>2012</i>
Programming Contest of Tongji University <i>Third Prize, Second Prize</i>	<i>2011, 2012</i>

CODE SKILLS

C/C++, Caffe, Python

STANDARDIZED TESTS

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

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