

BOWEN ZHANG

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SAL 311, 941 Bloom Walk

University of Southern California

EDUCATION

University of Southern California

Sept. 2017 - Present

Ph.D. student in Computer Science, Advisor: Prof. Fei Sha.

Overall GPA: 4.0/4.0

Tongji University

Sept. 2014 - Mar. 2017

M.Eng. 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

University of Southern California

Sept. 2017 - Present

Theoretical & Empirical Data Science Laboratory, Advisor: Prof. Fei Sha

Research Assistant

- We are developing novel methods for video retrieval.

SIAT, Chinese Academy of Sciences

Jul. 2015 - Jul. 2017

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

Visiting Student

- We developed a real-time action recognition algorithm with CNNs. Our method achieves $> 300fps$ (frames per second) processing speed with high performance. Our paper is accepted by CVPR'16.
- We developed novel action recognition algorithms that achieve the state-of-the-art performance on untrimmed video classification. We obtained the 1st at the 2016 ActivityNet Challenge on CVPR'16 and the 2nd at the 2017 ActivityNet Challenge on CVPR'17.

Tongji University

Sept. 2014 - Mar. 2017

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

Master Student

- 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 developed an event detection algorithm that achieves 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 Deeply-Transferred Motion Vector CNNs, *IEEE Transactions on Image Processing (TIP)*, 2018

- 2 Zhe Wang, Limin Wang, Yali Wang, **Bowen Zhang** and Yu Qiao, Weakly supervised patchnets: Describing and aggregating local patches for scene recognition, *IEEE Transactions on Image Processing (TIP)*, 2017
- 3 **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.
- 4 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.
- 5 **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**)
- 6 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.
- 7 **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 2017 on CVPR'17: Untrimmed Classification. <i>Rank 2nd</i> .	<i>Jul. 2017</i>
The ActivityNet Challenge 2017 on CVPR'17: Trimmed Classification. <i>Rank 2nd</i> .	<i>Jul. 2017</i>
The ActivityNet Challenge 2017 on CVPR'17: Action Localization. <i>Rank 2nd</i> .	<i>Jul. 2017</i>
The ActivityNet Challenge 2016 on CVPR'16: Untrimmed Video Classification. <i>Rank 1st</i> .	<i>Jul. 2016</i>
LSUN Challenge 2016 on 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

Shanghai Outstanding Graduates	<i>2017</i>
National Graduate Scholarship of China	<i>2016</i>
Huawei Scholarship (9 recipients in Tongji University)	<i>2015</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>
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>

CODE SKILLS

Python, Matlab, C/C++

ACADEMIC SERVICE

Reviewer of IEEE Transactions on Image Processing (**TIP**)