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.

Tongji University   *Sept. 2014 - Mar. 2017*
M.Eng. in Computer Engineering, 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*), (Accepted with minor revision)

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 Classificaiton. *Rank* 2nd.	*Jul. 2017*
The ActivityNet Challenge 2017 on CVPR'17: Trimmed Classification. *Rank* 2nd.	*Jul. 2017*
The ActivityNet Challenge 2017 on CVPR'17: Action Localization. *Rank* 2nd.	*Jul. 2017*
The ActivityNet Challenge 2016 on CVPR'16: Untrimmed Video Classification. *Rank* 1st.	*Jul. 2016*
LSUN Challenge 2016 on CVPR'16: Scene Classification. *Rank* 1st.	*Jul. 2016*
MediaEval'15 Affective Impact. Violence: *Rank:* 2nd; Valence: *Rank:* 2nd; Arousal: *Rank:* 1st.	*Sept. 2015*
MediaEval'14 Affect in Multimedia. Main: *Rank:* 4th; Generalization: *Rank:* 4th.	*Sept. 2014*

HONORS AND AWARDS

Shanghai Outstanding Graduates	*2017*
National Graduate Scholarship of China	*2016*
Huawei Scholarship (9 recipients in Tongji University)	*2015*
Best Bachelor Thesis of Tongji University (2 recipients in CS department)	*2014*
Be recommended for graduation school with excellent grade (10 recipients in CS department)	*2013*
Volkswagen Scholarship (3 recipients in CS Department)	*2012*
Scholarship for Academic Excellence of Tongji University	*2011, 2012, 2013*
China Undergraduate Mathematical Contest in Modeling (CUMCM) *Province Third Prize*	*2012*
The Mathematics Contest in Modeling (MCM) *Honorable mention*	*2012*

CODE SKILLS

Python, Matlab, C/C++

ACADEMIC SERVICE

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