# Bowen Zhang

**CONTACT INFORMATION**

Master Candidate
Department of Computer Science
College of Electronics and Information Engineering
Tongji University
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**RESEARCH INTERESTS**

**Computer vision in video classification and machine learning:** Trajectory-based descriptors, Bag-of-Words encoding (Fisher Vector, Vector of Locally Aggregated Descriptors), Spatial-temporal modeling, Scale modeling, Deep neural network, Action Recognition in 3D videos.

**EDUCATION**

**Tongji University**, Shanghai, China

Master of Engineering, Computer Engineering, 9/2014 -

- Multimedia and Intelligent Computing Lab
- Supervisor: Professor Hanli WANG
- Area of Study: Computer Vision and Machine Learning
- GPA: **96.2 / 100**

Bachelor of Engineering, Computer Science and Technology, 9/2010 - 6/2014

- Elite class of enhancement on Mathematics (Major in Computer Science)
- Thesis: *Video classification based on trajectory and pyramid techniques.* (in Chinese)
- Adviser: Professor Hanli Wang
- Overall GPA: **4.52 / 5.0 (Top 5%)**
- Overall GPA on 100 basis: **90.23 / 100**
- Minor in Applied Mathematics (Tongji University)
- Minor in Deutsch (Shanghai International Studies University)

**RESEARCH EXPERIENCE**

**Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences**, Shenzhen, Guangdong

Visiting student, 7/2015 -

- MMLAB of The Chinese University of Hong Kong at Shenzhen
- Supervisor: Professor Yu QIAO
- Area of Study: CNNs based Real-time Action Recognition System

**PUBLICATIONS**

[1] **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**)

[2] 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.

[3] **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.

**HONORS AND AWARDS**

**Academic:**

[1] Best undergraduate thesis of Tongji University (**Top 2%**)

[2] Merit student of Tongji University

[3] Be recommended for graduation school with excellent grade (**Top 10%**)

**Contest:**

[1] The Mathematics Contest in Modeling (MCM) *Honorable mention*

[2] Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM) *Third Prize of Shanghai*

[3] Tongji University Mathematical Contest in Modeling *Second Prize*

[4] Programming Contest of Tongji University *Second prize* (twice)

**Scholarship:**

[1] Huawei Scholarship

[2] Fellowship for master degree

[3] Volkswagen Scholarship

[4] Second-class scholarship for Academic Excellence of Tongji University (Twice)

[5] Third-class scholarship for Academic Excellence of Tongji University (Once)

CODING SKILLS    C/C++, OpenCV, Matlab, Caffe