

# 張凱鵬 (ZHANG, Kaipeng)

## General Information

Currently I am a Final Year undergraduate student in Donghua University, Shanghai, and a visiting student in Multimedia Laboratory, Shenzhen Institutes of Advanced Technology, Chinese Academy of Science. My research interests include computer vision and machine learning, particularly face analysis and deep learning.

Tel: (86) 18817957729

E-mail: kp\_zhang@foxmail.com

## Education

Undergraduate: in Computer Network Engineering (The class of excellent engineer), 2013-2016  
Computer Science and Technology School (Expected)  
Donghua University, Shanghai, China  
GPA: Top 20%

Undergraduate: in Electronic Information Engineering, 2012-2013  
College of Information, Mechanical and Electronic Engineering  
Shanghai Normal University, Shanghai, China  
GPA: Top 10%

## Main Courses & Grades

Computer Image Processing (95)	Discrete Mathematics (95)	Computer Organization and Architecture (90)
TCP/IP Protocol (90)	Data Structure (90)	Principles of Operating System (96)

## Research Interests

Computer Vision: Face analysis, face detection

Recognition and Machine Learning: Deep learning

## Publications

**Kaipeng Zhang**, Zhanpeng Zhang, Zhifeng Li, Yu Qiao, "Joint Face Detection and Alignment using Multi-task Cascaded Convolutional Networks," *IEEE Signal Processing Letters* (submitted)

**Kaipeng Zhang**, Lianzhi Tan, Zhifeng Li, Yu Qiao, "Gender and Smile Classification using Deep Convolutional Neural Networks," in *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2016 (accepted)

One European Conference on Computer Vision 2016 (ECCV 2016) paper has been submitted.

## Honors & Awards

ChaLearn Looking at People Challenge: Accessories Classification (CVPRW 2016)	First Price	2016
ChaLearn Looking at People Challenge: Smile and Gender Classification (CVPRW 2016)	First Price	2016
Outstanding Undergraduate Thesis	Donghua University	2016
China Undergraduate Mathematical Contest in Modeling	Second Prize	Shanghai 2015
Mathematical Contest in Modeling	Second Prize	Donghua University 2015
Wuyi Mathematical Contest	Third Prize	Jiangsu Province 2015
MathorCup & CAA Worldwide Mathematical Contest	Winner Price	China 2015
China Undergraduate Mathematical Contest in Modeling	Third Prize	Shanghai 2014
Mathematical Contest in Modeling	Third Prize	Donghua University 2014
ACM-ICPC Contest on Campus	Third Prize	Donghua University 2014
Second Prize Scholarship		Shanghai Normal University 2013
Mathematical Contest in Modeling	Second Prize	Shanghai Normal University 2012

## Internship

Shenzhen institutes of advanced technology, Chinese academy of sciences, visiting student 2015.07 - now

## Research Experience

**Gender and Smile Classification using Deep Convolutional Neural Networks** 2016.03

- leverage the multi-task learning and the general-to-specific fine-tuning scheme to enhance the performance of

our model

#### **Face detection and alignment by deep learning**

2015.07 - now

- Joint face and facial landmark detection using cascaded CNNs framework.
- Achieve the state-of-the-art performance in FDDB, WIDER FACE benchmark for face detection and AFLW benchmark for face alignment in high running speed.

### **Project Experience**

---

#### **Useless commodity comment classification**

2015.05

- Build comment vector model (Use jieba Chinese word segmentation module, TF-IDF formula, stacked autoencoder)
- Useless comment classification (Use random forest and K-means for labeled and none labeled data situation)

#### **Microblog user modeling and public opinion analysis**

2014.12 - now

- Build a user model based on ontology (Use TF-IDF formula, Baidu baike as ontology)
- Topic and public opinion analysis (Use LDA topic model and Random forest for public opinion classification)

#### **The application of face recognition in video retrieval**

2014.09 - 2014.11

- Use Eigenface for face recognition and retrieve video by personal identity
- The system runs on Hadoop for large-scale data processing

### **English & Professional Skill**

---

English: CET4 (529)

Senior Network Engineer (approved and authorized by the Ministry of Human Resources and Social Security, China)

EMC Academic Associate, Information Storage and Management

EMC Academic Associate, Cloud Infrastructure and Services

C/C++, Python, and Matlab programming