# Zhiwen Shao

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## Personal

Gender: Male                                   Date of Birth: December 12, 1994

Address: SEIEE-3-504, 800 Dongchuan Road, Minhang District, Shanghai 200240, China

## Education

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| Sept. 2015 - Present | Ph.D. candidate in Department of Computer Science and Engineering, Shanghai Jiao Tong University (SJTU), Shanghai, P. R. of China. |
| Sept. 2011 - Jun. 2015 | B.Eng. degree from the School of Computer Science and Technology, Northwestern Polytechnical University (NPU), Xi'an, P. R. of China. |

## Research Interests

**Image Analysis**
- Face Alignment, Facial Action Unit Recognition, Face Recognition, Saliency Detection, Image Matching.

**Deep Learning**
- Convolutional Neural Network, Recurrent Neural Network.

## Publications

- **Z. Shao**, Z. Liu, J. Cai, and L. Ma, "Deep Adaptive Attention for Joint Facial Action Unit Detection and Face Alignment," *arXiv preprint arXiv:1803.05588*, 2018.
- **Z. Shao**, H. Zhu, Y. Hao, M. Wang, and L. Ma, "Learning a multi-center convolutional network for unconstrained face alignment," in *IEEE International Conference on Multimedia and Expo (ICME)*. IEEE, 2017, pp. 109-114.
- **Z. Shao**, S. Ding, Y. Zhao, Q. Zhang, and L. Ma, "Learning deep representation from coarse to fine for face alignment," in *IEEE International Conference on Multimedia and Expo (ICME)*. IEEE, 2016, pp. 1-6.
- **Z. Shao**, S. Ding, H. Zhu, C. Wang, and L. Ma, "Face alignment by deep convolutional network with adaptive learning rate," in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE, 2016, pp. 1283-1287.
- H. Zhu, X. Tan, **Z. Shao**, Y. Hao, and L. Ma, "Multi-path Feature Fusion Network for Saliency Detection," in *IEEE International Conference on Multimedia and Expo (ICME)*. IEEE, 2018.
- X. Tan, H. Zhu, **Z. Shao**, X. Hou, Y. Hao, and L. Ma, "Saliency Detection by Deep Network with Boundary Refinement and Global Context," in *IEEE International Conference on Multimedia and Expo (ICME)*. IEEE, 2018.
- H. Zhu, B. Sheng, **Z. Shao**, Y. Hao, X. Hou, and L. Ma, "Better initialization for regression-based face alignment," *Computers & Graphics*, 2017.
- H. Zhu, **Z. Shao**, Y. Hao, and L. Ma, "Better face alignment via better initialization," in *IEEE International Conference on Computer-Aided Design and Computer Graphics (CAD/Graphics)*. IEEE, 2017.

- K. Tang, X. Hou, **Z. Shao**, and L. Ma, "Deep feature selection and projection for cross-age face retrieval," in *International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI)*. IEEE, 2017, pp. 1-7.
- Y. Zhao, Y. Li, **Z. Shao**, and H. Lu, "LSOD: Local sparse orthogonal descriptor for image matching," in *ACM International Conference on Multimedia (MM)*. ACM, 2016, pp. 232-236.

## Selected Honors

**Scholarships**
- Leo KoGuan Scholarship                                          2017
- Leo KoGuan Scholarship                                          2016
- First Class Scholarship                                    2013-2014
- National Endeavor Scholarship                              2012-2013
- Samsung Scholarship                                        2012-2013
- First Class Scholarship                                    2012-2013
- National Endeavor Scholarship                              2011-2012
- Wu Yajun Scholarship                                       2011-2012
- First Class Scholarship                                    2011-2012

**Awards**
- Mathematical Contest In Modeling, Honorable Mention                          2014
- China Undergraduate Electronic Mathematical Contest In Modeling, Second Prize  2013
- China Undergraduate Mathematical Contest in Modeling, Shaanxi Province, First Prize 2013
- Mathematical Contest of Shaanxi Province of China, Second Prize              2012
- NPU, Outstanding Graduate                                                   2015
- C Programming Contest of NPU, Second Prize                                  2014
- Mathematical Contest In Modeling of NPU, First Prize                        2013
- C Programming Contest of NPU, Second Prize                                  2013
- Smartcar Contest of NPU, Third Prize                                        2013
- Mathematical Contest In Modeling of NPU, First Prize                        2012
- Photoshop Design Contest of NPU, Second Prize                               2012
- Photoshop Design Contest of NPU, Honorable Mention                          2011
- Sunshine Project, Outstanding Volunteer                                     2011

## Professional Skills

- **English :** CET-4 567,   CET-6 489,   TOEFL 81.

- **Academic Record:** Undergraduate 87.18 (Top 3.40%), Graduate 2.625 (3.3 GPA Scale).

- **Programming :** C++, Python, Matlab.

- **Deep Learning Framework :** Caffe, PyTorch.

## Experiences

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| Nov. 2017 - Present | Research Assistant | Nanyang Technological University |
| Mar. 2015 - Sept. 2016 | Intern (Joint Project of Tencent and SJTU) | Tencent Youtu Lab |
| Sept. 2011 - Jan. 2012 | Volunteer | Sunshine Project of NPU |