# Zhiwen Shao

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## Personal

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, Northwestern Polytechnical University (NPU), Xi'an, P. R. of China. |

## Research Interests

**Image Analysis**

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

**Deep Learning**

- Generative Adversarial Network, Convolutional Neural Network.

## Publications

- **Z. Shao**, H. Zhu, X. Tan, Y. Hao, and L. Ma, "Deep multi-center learning for face alignment," Neurocomputing, 2019. **(SCI Q2)**
- **Z. Shao**, Z. Liu, J. Cai, and L. Ma, "Deep adaptive attention for joint facial action unit detection and face alignment," in *European Conference on Computer Vision (ECCV)*. Springer, 2018, pp. 725-740. **(Top CV Conference)**
- **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. **(CCF B, oral)**
- **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. **(CCF B)**
- **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. **(CCF B, oral)**
- Y. Hao, H. Zhu, **Z. Shao**, and L. Ma, "Feedback cascade regression model for face alignment," *IET Computer Vision*, 2019. **(CCF C, SCI)**
- 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, pp. 1-6. **(CCF B)**
- 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, pp. 1-6. **(CCF B)**
- Y. Hao, H. Zhu, **Z. Shao**, X. Tan, and L. Ma, "Facial landmark detection under large pose," in *International Conference on Neural Information Processing (ICONIP)*. IEEE, 2018, pp. 684-696. **(CCF C, oral)**

- H. Zhu, B. Sheng, **Z. Shao**, Y. Hao, X. Hou, and L. Ma, "Better initialization for regression-based face alignment," *Computers & Graphics*, vol. 70, pp. 261-269, 2018. **(CCF C, SCI)**
- 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. **(CCF A, short)**

## 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 :** Python, Matlab, C++.
- **Deep Learning Framework :** PyTorch, Caffe.
- **Invited Reviewer :** ACM International Conference on Multimedia (MM) 2018, IEEE Transaction on Multimedia (TMM), Journal of Electronic Imaging

## Experiences

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| Nov. 2017 - Nov. 2018 | 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 |