

# Yandong Wen

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## CONTACT INFORMATION

**Email Address:** [yandongw@andrew.cmu.edu](mailto:yandongw@andrew.cmu.edu)

**Homepage:** <http://ydwen.github.io>

## RESEARCH INTERESTS

Computer Vision, Deep Learning, Dictionary Learning, Sparse Coding, Face Recognition.

## EDUCATION

**South China University of Technology (SCUT)**, Guangzhou, P. R. China

M.E., School of Electronic and Information Engineering

Sep 2013 - Jul 2016

- GPA:3.72/4.0, Rank:3/46

**South China University of Technology (SCUT)**, Guangzhou, P. R. China

B.Eng., School of Electronic and Information Engineering

Sep 2009 - Jul 2013

- GPA:3.74/4.0, Rank:21/272

## RESEARCH EXPERIENCE

**Multimedia Laboratory, Shenzhen Institutes of Advanced Technology**

**Visiting Student**

May 2015 - Present

**Deep Learning for Face Verification**

- We achieve the best results (**65.27%** for face identification and **76.52%** for face verification) on MegaFace Challenge dataset with 1 million distractors under the protocol of samll training set.
- We achieve **99.28%** and **99.5%** verification accuracy in LFW database by single and ensemble model respectively, only using publicly available training images (0.7M).
- This work has been accepted by **ECCV 2016**

**Deep Learning for Age-Invariant Face Recognition**

- We propose a Latent Factor guided Convolution Neural Networks (LF-CNNs) for age-invariant face recognition, beating the state-of-the-art algorithms by significant margin.
- This work has been accepted by **CVPR 2016**

**Supervisor:** Prof. Zhifeng Li & Prof. Yu Qiao

**Intelligent Information Processing Lab, South China University of Technology**

**Research Assistant**

Sep 2013 - May 2015

**Image-based Face Recognition via Sparse Representation**

- We propose novel approaches to address the problem of occlusion, misalignment in face recognition, achieving **better performance** with **less time**.
- Some papers have been published based on this work.

**Supervisor:** Prof. Yuli Fu

**Research Intern**

Sep 2012 - Jul 2013

**Image Denoising via Sparse Representation**

- Outstanding Bachelor Thesis Award.

**Supervisor:** Prof. Yuli Fu & Prof. Haifeng Li

## PROFESSIONAL MEMBERSHIP & ACTIVITIES

**Microsoft Technology Club (MSTC), South China University of Technology**

**Member** of the Technology Department

Sep 2013 - May 2014

- Held the *SeedCoder2014* Programming Contest sponsored by Microsoft Research Asia (MSRA) from March 26, 2014 to April 21, 2014. More than 130 teams signed up for competition.

**Vice President** of the Club

May 2014 - May 2015

- Organized Special Interest Group (SIG) within Technology Department. 2 or 3 members choose a topic they interested and focus it jointly for half a year.

- Held Specialist Seminar about latest progress in Computer Science (CS) within Department of Technology, once a month.

#### AWARDS

<b>Goodix Scholarship</b>	Nov. 2015
• First Prize ( <b>Top 5%</b> )	
<b>National Postgraduate Mathematic Contest in Modeling</b>	Nov. 2013
• First Prize ( <b>Top 2%</b> )	
<b>Outstanding Bachelor Thesis Award (Top 10%)</b>	Jul. 2013
<b>Desay Cup National Software Innovation Contest</b>	Nov. 2012
• Second Prize ( <b>2/700+</b> )	
<b>Electronic Design Contest in Guangdong Province</b>	Sep. 2012
• Second Prize (Top 15%)	
<b>Scholarship in SCUT</b>	2010 & 2012 & 2014 & 2015
<b>Outstanding Volunteer in 2010 Asian Games</b>	Nov. 2010

#### PUBLICATIONS

1. **Yandong Wen**, Kaipeng Zhang, Zhifeng Li, Yu Qiao. “A Discriminative Feature Learning Approach for Deep Face Recognition.” *The 14th European Conference on Computer Vision (ECCV’16)*, Amsterdam, The Netherlands, 2016. (**Accepted**)
2. **Yandong Wen**, Weiyang Liu, Meng Yang and Ming Li. “Efficient Misalignment-robust Face Recognition via Locality-constrained Representation.” *IEEE International Conference on Image Processing (ICIP’16)*, Phoenix, U.S.A., 2016.
3. **Yandong Wen**<sup>\*</sup>, Weiyang Liu<sup>\*</sup>, Zhiding Yu, and Meng Yang. “Large-Margin Softmax Loss for Convolutional Neural Networks.” *The 33rd International Conference on Machine Learning (ICML’16)*, Amsterdam, The Netherlands, 2016.
4. **Yandong Wen**, Zhifeng Li, and Yu Qiao. “Latent Factor Guided Convolutional Neural Networks for Age-Invariant Face Recognition.” *IEEE Conference on Computer Vision and Pattern Recognition (CVPR’16)*, Las Vegas, U.S.A, 2016.
5. **Yandong Wen**, Weiyang Liu, Meng Yang, Yuli Fu, Youjun Xiang, and Rui Hu. “Structured Occlusion Coding for Robust Face Recognition.” **Neurocomputing**, vol. 178(20), page 11–24, 2015.
6. Weiyang Liu, Zhiding Yu, Lijia Lu, **Yandong Wen**, Hui Li, and Yuexian Zou. “KCRC-LCD: Discriminative Kernel Collaborative Representation with Locality Constrained Dictionary for Visual Categorization.” **Pattern Recognition**, vol. 48(10), page 3076–3092, 2015
7. Weiyang Liu, Zhiding Yu, **Yandong Wen**, Meng Yang and Yuexian Zou. “Multi-Kernel Collaborative Representation for Image Classification.” *IEEE International Conference on Image Processing (ICIP’15)*, Quebec City, Canada, 2015.
8. **Yandong Wen**, Youjun Xiang, and Yuli Fu. “A Joint Classification Approach via Sparse Representation for Face Recognition.” *IEEE International Conference on Signal Processing (ICSP’14)*, Hangzhou, China, 2014.
9. Weiyang Liu, **Yandong Wen**, Hui Li, and Bing Zhu. “Dictionary Construction for Sparse Representation Classification: A Novel Cluster-based Approach.” *IEEE Symposium on computers and Communications (ISCC’14)*, Madeira, Portugal, 2014.