

CONTACT INFORMATION	Department of Automation, Tsinghua University, Beijing, China Homepage: http://yulunzhang.com/	yulun100@gmail.com Tel: 86-13168760429
RESEARCH INTERESTS	Machine Learning: sparse/collaborative representation, dictionary learning, deep learning. Computer Vision: image processing (image restoration/generation, style transfer) and visual recognition (face recognition/verification).	
EDUCATION	Tsinghua University , Beijing, China M.E., Department of Automation <ul style="list-style-type: none"> • Major in Control Engineering • Advisor: <i>Prof. Yongbing Zhang</i> • Overall GPA: 3.73/4.0, Major GPA: 3.75/4.0 The University of Sydney , Sydney, Australia Visiting Student, School of Electrical and Information Engineering <ul style="list-style-type: none"> • Advisor: <i>Prof. Dong Xu</i> and Dr. <i>Wen Li</i> • Research on metric learning with privileged information for visual recognition. Xidian University , Xi'an, China B.S., School of Electronic Engineering <ul style="list-style-type: none"> • Major in Intelligence Science and Technology • Overall GPA: 3.36/4.0, Major GPA: 3.63/4.0 	Sep 2014 – Jul 2017 Jan 2016 – Jul 2016 Sep 2009 – Jul 2013
RESEARCH EXPERIENCE	Research Assistant Multimedia Research Center, SIAT, Chinese Academy of Sciences, China Supervisor: <i>Prof. Yu Qiao</i> Projects: Generative adversarial networks (GAN) for image restoration/generation. Project Officer School of Computer Engineering, Nanyang Technological University, Singapore Supervisor: Dr. <i>Li Niu</i> and <i>Prof. Dong Xu</i> Projects: Exploiting privileged information from web data for visual recognition. Research Assistant Department of Automation, Tsinghua University, China Supervisor: <i>Prof. Yongbing Zhang</i> Projects: Image super-resolution and compression artifact removal via sparse/collaborative representation and deep learning. Research Assistant School of Electronic Engineering, Xidian University, China Supervisor: <i>Prof. Shuyuan Yang</i> Projects: 1. Learning efficient features for action recognition in video domain. 2. Depth extraction from natural images using optical flow.	Oct 2016 – Jun 2017 Nov 2015 – Jan 2016 Mar 2014 – Jul 2017 Jun – Aug 2012, Dec 2012 – Jun 2013
PREPRINTS	(* means corresponding author and <i>Prof. Yongbing Zhang</i> is my master supervisor.) 1. Yongbing Zhang, Yulun Zhang *, et al., “Self-enhanced Adaptive Local Nonparametric Regression for Image Super-Resolution and Compression Artifact Removal,” <i>submitted to IEEE Trans. Image Process.</i> (TIP) 2. Yapeng Tian, Fei Zhou, Xuesen Shang, Wenming Yang, Yulun Zhang , et al., “Local and Nonlocal Graph Laplacian Regularization for Single Image Super-Resolution with Deep Network Enhancement,” <i>submitted to IEEE Trans. Image Process.</i> (TIP)	

JOURNAL
PUBLICATIONS

(* means corresponding author and *Prof.* Yongbing Zhang is my master supervisor.)

1. Yongbing Zhang, **Yulun Zhang***, Jian Zhang, and Qionghai Dai, “CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution,” *IEEE Trans. Multimedia (TMM)*, vol. 18, no. 3, pp. 405–417, Mar. 2016.
2. Yongbing Zhang, **Yulun Zhang***, Jian Zhang, Dong Xu, Yun Fu, Xiangyang Ji, and Qionghai Dai, “Collaborative Representation Cascade for Single Image Super-Resolution,” *IEEE Trans. Syst., Man, Cybern., Syst. (TSMC)*, 2017.

CONFERENCE
PUBLICATIONS

1. **Yulun Zhang**, Yongbing Zhang, Jian Zhang, Haoqian Wang, and Qionghai Dai, “Adaptive Local Nonparametric Regression for Fast Single Image Super-Resolution,” *IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2015. (**Best Student Paper Award**, 1 out of over **313** submissions.)
2. **Yulun Zhang**, Kaiyu Gu, Yongbing Zhang, Jian Zhang, and Qionghai Dai, “Image Super-Resolution Based on Dictionary Learning and Anchored Neighborhood Regression with Mutual Incoherence,” *IEEE International Conference on Image Processing (ICIP)*, 2015.
3. **Yulun Zhang**, Yongbing Zhang, Jian Zhang, Haoqian Wang, and Qionghai Dai, “Single Image Super-Resolution via Iterative Collaborative Representation,” *Pacific-Rim Conference on Multimedia (PCM)*, 2015.
4. **Yulun Zhang**, Yongbing Zhang, and Qionghai Dai, “Single Depth Image Super-Resolution via A Dual Sparsity Model,” *IEEE International Conference on Multimedia and Expo (ICME) Workshop on Hot Topics in 3D (Hot3D)*, 2015.
5. Tao Shen, **Yulun Zhang**, Yongbing Zhang, Xingzheng Wang, Haoqian Wang, and Qionghai Dai, “Decompressed Video Enhancement via Accurate Regression Prior,” *IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2016.
6. Yihui Feng, Yongbing Zhang, **Yulun Zhang**, Tao Shen, and Qionghai Dai, “Single Image Super-Resolution via Projective Dictionary Learning with Anchored Neighborhood Regression,” *IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2016.
7. Radu Timofte, ..., **Yulun Zhang**, ..., et al., “NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results,” *IEEE CVPR New Trends in Image Restoration and Enhancement workshop and challenge on image super-resolution (CVPR NTIRE)*, 2017. (Our team ranked 2nd place.)

HONORS AND
AWARDS

- Shenzhen Universiade International Scholarship, 2017
- Excellent Graduate of Beijing, 2017
- Excellent Graduate in Department of Automation, Tsinghua University, 2017
- Excellent Master Thesis of Tsinghua University, 2017
- National Scholarship (Ministry of Education, China, Top 2%), 2016
- **Best Student Paper Award** at IEEE **VCIP**, 2015
- Jingzhi Research Award in Tsinghua University (Top 5%), 2015
- Second Prize Scholarship of Xidian University, 2011, 2012
- Advanced Individual of Social Work, 2011
- Third Prize Scholarship of Xidian University, 2010
- Advanced Individual of Civilized Dormitory Contribution, 2010
- Excellent Student in Xidian University (Top 5%), 2009

PROFESSIONAL ACTIVITIES	Journal Reviewer	
	<ul style="list-style-type: none"> • IEEE Trans. Image Process. (TIP) (since Jul 2016) • IEEE Trans. Circuits Syst. Video Technol. (TCSVT) (since May 2016) 	
	Oral Presentations or Posters at Conferences	
	• IEEE Int. Conf. on Visual Communications and Image Processing, Singapore	Dec 2015
	• IEEE International Conference on Image Processing, Quebec, Canada	Sep 2015
	• Pacific-Rim Conference on Multimedia, Gwangju, Korea	Sep 2015
	• IEEE International Conference on Multimedia and Expo, Torino, Italy	Jun 2015
	Memberships	
	<ul style="list-style-type: none"> • Student Member, IEEE • Student Member, CCF 	
TEACHING	• Teaching Assistant, Modern Signal Processing, Tsinghua University	Fall 2015
SKILLS	<ul style="list-style-type: none"> • Programming: Matlab, C/C++, Python, Lua, \LaTeX, Visual Studio, OpenCV, Linux. • Deep learning tools: Caffe, Torch, Keras. 	