
CONTACT INFORMATION	427 Richard Hall, 360 Huntington Ave., Northeastern University, Boston, MA, U.S. Homepage: http://yulunzhang.com	yulun100@gmail.com Tel: +1-(617)849-0935 Google Scholar
RESEARCH INTERESTS	Machine Learning: deep learning. Computer Vision: image processing (image restoration/generation)	
EDUCATION	Northeastern University , Boston, USA	Sep 2017 – Now
	Ph.D., Department of ECE, College of Engineering <ul style="list-style-type: none"> • Major in Computer Engineering • Advisor: <i>Prof. Yun Raymond Fu</i> 	
	Tsinghua University , Beijing, China	Sep 2014 – Jul 2017
	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	Jan 2016 – Jul 2016
	Visiting Student, School of Electrical and Information Engineering <ul style="list-style-type: none"> • Advisors: <i>Prof. Dong Xu</i> and <i>Dr. Wen Li</i> • Research on metric learning with privileged information for visual recognition. 	
	Xidian University , Xi'an, China	Sep 2009 – Jul 2013
	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 	
RESEARCH EXPERIENCE	SMILE lab, Northeastern University, Boston, USA	Sep 2017 – Now
	Research Assistant. Advisor: Yun Raymond Fu Projects: Deep learning for image restoration and generation.	
	Adobe Research, San Jose, USA	May 2018 – Aug 2018
	Research Intern. Mentors: Chen Fang, Zhaowen Wang, Yilin Wang, Jimei Yang, Zhe Lin Projects: High-resolution and efficient style transfer.	
	Tsinghua University, China	Mar 2014 – Jul 2017
	Research Assistant. Advisor: Yongbing Zhang Projects: Image super-resolution and compression artifact removal via sparse/collaborative representation and deep learning.	
	SIAT, Chinese Academy of Sciences, China	Oct 2016 – Jun 2017
	Research Assistant. Advisor: Yu Qiao Projects: Generative adversarial networks (GAN) for image restoration/generation.	
	Nanyang Technological University, Singapore	Nov 2015 – Jan 2016
	Project Officer. Advisors: Li Niu and Dong Xu Projects: Exploiting privileged information from web data for visual recognition.	
	Xidian University, China	Jun – Aug 2012, Dec 2012 – Jun 2013
	Research Assistant. Advisor: Shuyuan Yang Projects: 1. Learning efficient features for action recognition in video domain. 2. Depth extraction from natural images using optical flow.	

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 Transactions on 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 Transactions on Systems, Man, and Cybernetics: Systems (TSMC)*, 2017.

CONFERENCE
PUBLICATIONS

1. **Yulun Zhang**, Kunpeng Li, Kai Li, Lichen Wang, Bineng Zhong, and Yun Fu,, “Image Super-Resolution Using Very Deep Residual Channel Attention Networks,” *European Conference on Computer Vision (ECCV)*, 2018.
2. Kai Li, Zhengming Ding, Kunpeng Li, **Yulun Zhang**, and Yun Fu, “Support Neighbor Loss for Person Re-Identification,” *ACM International Conference on Multimedia (ACM MM)*, 2018.
3. **Yulun Zhang**, Yapeng Tian, Yu Kong, Bineng Zhong, and Yun Fu, “Residual Dense Network for Image Super-Resolution,” *IEEE Computer Vision and Pattern Recognition (CVPR)*, 2018, (**Spotlight, 6.6%**)
4. **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.)
5. **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.
6. **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.
7. **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.
8. 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.
9. Yihui Feng, Yongbing Zhang, **Yulun Zhang**, Tao Shen, and Qionghai Dai, “Decompressed Video Enhancement via Accurate Regression Prior,” *IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2016.
10. 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.)
11. Wangpeng An, Haoqian Wang, **Yulun Zhang**, and Qionghai Dai, “Exponential Decay Sine Wave Learning Rate for Fast Deep Neural Network Training,” *IEEE International Conference on Visual Communications and Image Processing (VCIP)*, 2017.

HONORS AND AWARDS	• PhD Network Travel Grant, Northeastern University, USA,	2018
	• Dean's Fellowship in Northeastern University, USA,	2017
	• Shenzhen Universiade International Scholarship, China,	2017
	• Excellent Graduate of Beijing, China,	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	Program Committee Member	
	• AAAI 2019	
	Journal Reviewer	
	• IEEE Trans. Image Process. (TIP)	
	• IEEE Trans. Circuits Syst. Video Technol. (TCSVT)	
	• IEEE Trans. Neural Netw. and Learn. Syst. (TNNLS)	
	Oral Presentations or Posters at Conferences	
	• Conference on Computer Vision and Pattern Recognition, Salt Lake City, Utah	Jun 2018
	• 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	
TEACHING	• Teaching Assistant, Computer Vision, Northeastern University	Fall 2018
	• Teaching Assistant, Modern Signal Processing, Tsinghua University	Fall 2015
SKILLS	• Programming: Matlab, C/C++, Python, Lua, \LaTeX , Visual Studio, OpenCV, Linux.	
	• Deep learning tools: PyTorch, Tensorflow, Caffe, Torch, Keras, MatConvNet.	