

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 restoration, style transfer	
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"> • 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	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	Supervisor: <i>Prof. Yun Raymond Fu</i>
	Projects: Deep learning for image restoration and generation.	
	Adobe Research, San Jose, USA	May 2018 – Aug 2018
	Research Intern Mentors: <i>Chen Fang</i> , <i>Zhaowen Wang</i> , <i>Yilin Wang</i> , <i>Jimei Yang</i> , <i>Zhe Lin</i> Projects: Style transfer.	
	Tsinghua University, China	Mar 2014 – Jul 2017
	Research Assistant	Supervisor: <i>Prof. Yongbing Zhang</i>
	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	Supervisor: <i>Prof. Yu Qiao</i>
	Projects: Generative adversarial networks (GAN) for image restoration/generation.	
	Nanyang Technological University, Singapore	Nov 2015 – Jan 2016
	Project Officer	Supervisor: <i>Dr. Li Niu</i> and <i>Prof. Dong Xu</i>
	Projects: Exploiting privileged information from web data for visual recognition.	
	Xidian University, China	Jun – Aug 2012, Dec 2012 – Jun 2013
	Position: Research Assistant	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.	

1. Bineng Zhong, Bing Bai, Jun Li, **Yulun Zhang**, and Yun Fu, "Hierarchical Tracking by Reinforcement Learning based Searching and Coarse-to-fine Verifying," *IEEE Trans. on Image Processing (TIP)*, 2018.
2. Qinqin Zhou, Bineng Zhong, **Yulun Zhang**, Jun Li, and Yun Fu, "Deep Alignment Network Based Multi-person Tracking with Occlusion and Motion Reasoning," *IEEE Trans. Multimedia (TMM)*, 2018.
3. 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.
4. 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.

1. **Yulun Zhang**, Kunpeng Li, Kai Li, Bineng Zhong, and Yun Fu, "Residual Non-local Attention Networks for Image Restoration," *International Conference on Learning Representations (ICLR)*, 2019. (Poster, 30%)
2. **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. (Poster, 29.4%)
3. **Yulun Zhang**, Yapeng Tian, Yu Kong, Bineng Zhong, and Yun Fu, "Residual Dense Network for Image Super-Resolution," *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. (**Spotlight, 6.6%**)
4. 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. (Poster, 27 %)
5. **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.)
6. **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.
7. **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.
8. **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.
9. 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.
10. 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.

11. 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.)
12. 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 of 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

- Association for the Advancement of Artificial Intelligence (**AAAI**), 2019

Reviewer

- Conferences: CVPR’19
- Journals: TIP, TCSVT, TMM, TNNLS, Neurocomputing, IEEE/CAA Journal of Automatica Sinica (JAS), IEEE Computational Intelligence Magazine (CIM)

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

Memberships

- Student Member, IEEE
- Student Member, CCF

TEACHING

- Teaching Assistant, Computer Vision, Northeastern University Fall 2018
- Teaching Assistant, Modern Signal Processing, Tsinghua University Fall 2015

SKILLS

- Programming: Matlab, Python, Lua, C/C++, L^AT_EX, Visual Studio, OpenCV, Linux.
- Deep learning tools: PyTorch, TensorFlow, Caffe, Torch, Keras, MatConvNet.