

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/video 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> • Overall GPA: 3.92/4.0 	
	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	Jun 2019 – Aug 2019
	Research Intern Mentors: <i>Zhifei Zhang</i> , <i>Stephen DiVerdi</i> , <i>Zhaowen Wang</i> , <i>Jose Echevarria</i>	
	Projects: Painting super-resolution.	
	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.	

• **Preprints**

1. **Yulun Zhang**, Zhifei Zhang, Stephen DiVerdi, Zhaowen Wang, Jose Echevarria, and Yun Fu, “Texture Hallucination for Large-Scale Painting Super-Resolution”, *arXiv preprint arXiv:1912.00515*, 2019
2. Yapeng Tian, **Yulun Zhang**, Yun Fu, and Chenliang Xu, “TDAN: Temporally Deformable Alignment Network for Video Super-Resolution”, *arXiv preprint arXiv:1812.02898*, 2018

• **Journal Papers**

1. **Yulun Zhang**, Yapeng Tian, Yu Kong, Bineng Zhong, and Yun Fu, “Residual Dense Network for Image Restoration”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2020
2. Xiaole Zhao, **Yulun Zhang**, Tao Zhang, and Xueming Zou, “Channel Splitting Network for Single MR Image Super-Resolution”, *IEEE Transactions on Image Processing (TIP)*, 2019
3. Bineng Zhong, Bing Bai, Jun Li, **Yulun Zhang**, and Yun Fu, “Hierarchical Tracking by Reinforcement Learning based Searching and Coarse-to-fine Verifying”, *IEEE Transactions on Image Processing (TIP)*, 2019.
4. Qinqin Zhou, Bineng Zhong, **Yulun Zhang**, Jun Li, and Yun Fu, “Deep Alignment Network Based Multi-person Tracking with Occlusion and Motion Reasoning”, *IEEE Transactions Multimedia (TMM)*, 2018.
5. 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.
6. Yongbing Zhang, **Yulun Zhang***, Jian Zhang, and Qionghai Dai, “CCR: Clustering and Collaborative Representation for Fast Single Image Super-Resolution”, *IEEE Transactions Multimedia (TMM)*, vol. 18, no. 3, pp. 405–417, Mar. 2016.

• **Conference Papers**

1. Yu Yin, Joseph Robinson, **Yulun Zhang**, and Yun Fu, “Joint Super-Resolution and Alignment of Tiny Faces”, *The AAAI Conference on Artificial Intelligence (AAAI)*, 2020. (Poster, 20.6%)
2. **Yulun Zhang**, Chen Fang, Yilin Wang, Zhaowen Wang, Zhe Lin, Yun Fu, and Jimei Yang, “Multimodal Style Transfer via Graph Cuts”, *IEEE International Conference on Computer Vision (ICCV)*, 2019. (Poster, 25%)
3. Kunpeng Li, **Yulun Zhang**, Kai Li, Yuanyuan Li, and Yun Fu, “Visual Semantic Reasoning for Image-Text Matching”, *IEEE International Conference on Computer Vision (ICCV)*, 2019. (Oral, 4.3%)
4. Kunpeng Li, **Yulun Zhang**, Kai Li, Yuanyuan Li, and Yun Fu, “Attention Bridging Network for Knowledge Transfer”, *IEEE International Conference on Computer Vision (ICCV)*, 2019. (Poster, 25%)
5. Qinqin Zhou, Bineng Zhong, Xiangyuan Lan, Gan Sun, **Yulun Zhang**, Mengran Gou, “LRDNN: Local-refining based Deep Neural Network for Person Re-Identification with Attribute Discerning”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2019. (Oral, 13.7%)

6. **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, 31%)
7. **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%)
8. **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%**)
9. 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 %)
10. **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**)

• Workshop Papers

1. Can Qin, Lichen Wang, **Yulun Zhang**, and Yun Fu, “Generatively Inferential Co-Training for Unsupervised Domain Adaptation”, *IEEE ICCV Real-World Recognition from Low-Quality Images and Videos (RLQ) workshop (ICCV Workshop)*, 2019. (**Best Paper Award**)
2. 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 Workshop)*, 2017. (Our team ranked 2nd place.)

HONORS AND AWARDS

- **Best Paper Award**, RLQ workshop, IEEE ICCV, 2019
- ICCV Travel Award, 2019
- ICLR Travel Award, 2019
- PhD Network Travel Grant, Northeastern University, USA, 2018, 2019
- 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
- Third Prize Scholarship of Xidian University, 2010

ACADEMIC SERVICE

Conference Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
- International Conference on Computer Vision (ICCV)
- European Conference on Computer Vision (ECCV)
- AAAI Conference on Artificial Intelligence (AAAI)
- International Joint Conferences on Artificial Intelligence (IJCAI)

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Neural Networks and Learning Systems (TNNLS)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- IEEE Transactions on Computational Imaging (TCI)
- Computer Vision and Image Understanding (CVIU)

TEACHING	• Part-Time Instructor, Data Visualization, Northeastern University	Spring 2020
	• 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 ^A T _E X, Visual Studio, OpenCV, Linux.
	• Deep learning tools: PyTorch, TensorFlow, Caffe, Torch, Keras, MatConvNet.