Yapeng TIAN

Contact Information	The Department of Computer Science, University of Rochester, Rochester, NY, USA, 14623.	<pre></pre>	
Research Interests	Multimodal Learning: audio-visual video undersLow-Level Vision: image/video restoration	tanding	
Education	 University of Rochester, Rochester, USA PhD student in The Department of Computer Scientific Charlists No. 	Sep. 2017 – Exp. 2022 nce	
	 Advisor: <i>Prof.</i> Chenliang Xu Tsinghua University, Beijing, China M.E. in The Department of Electronic Engineering GPA: 90.55/100 (Rank: 3/52) 	Sep. 2014 – July 2017 g	
	Outstanding Graduate of Tsinghua University Award (Top 1%)		
	Xidian University, Xi'an, ChinaB.E. in Intelligence Science and Technology (School	Aug. 2009 – July 2013	
Work Experience	Adobe Research, Seattle, USAResearch Intern in the Creative Intelligence Lab	May 2019 – Nov. 2019	
	• Mentor: <i>Dr.</i> Dingzeyu Li		
Research Experience	CS, University of RochesterResearch Assistant with Prof. Chenliang Xu	Aug. 2017 – Present	
	EE, Tsinghua UniversityResearch Assistant with Prof. Wenming Yang	Mar. 2015 – Aug. 2017	
	SIAT, Chinese Academy of Sciences • Visiting Student with Prof. Yu Qiao	Nov. 2016 – May 2017	
Conference Publications	• Yapeng Tian, Dingzeyu Li, and Chenliang Xu, "Unified Multisensory Perception: Weakly-Supervised Audio-Visual Video Parsing", ECCV, 2020. (Spotlight, top 5% out of 5000+ submissions)		
	• Yapeng Tian, Yulun Zhang, Yun Fu, and Chenliang Xu, "TDAN: Temporally Deformable Alignment Network for Video Super-Resolution", CVPR, 2020.		
	• Xiaoyu Xiang*, Yapeng Tian *, Yulun Zhang, Yun Fu, Jan Allebach+, and Chenliang Xu+, "Zooming Slow-Mo: Fast and Accurate One-Stage Space-Time Video Super-Resolution", CVPR, 2020. (* <i>Equal contribution</i> . + <i>Equal advising</i>)		
	• Yapeng Tian, Jing Shi, Bochen Li, Zhiyao Duan, and Chenliang Xu, "Audio-Visual		

Event Localization in Unconstrained Videos", ECCV, 2018.

- Yapeng Tian, Chenliang Xu, Dingzeyu Li. "Deep Audio Prior: Learning Sound Source Separation from a Single Audio Mixture", Sight and Sound Workshop, CVPR, 2020.
- Yapeng Tian*, Di Hu*, Chenliang Xu. "Co-Learn Sounding Object Visual Grounding and Visually Indicated Sound Separation in A Cycle". Sight and Sound Workshop, CVPR, 2020. (*Equal contribution.)
- Yapeng Tian, Dingzeyu Li, and Chenliang Xu. "Weakly-Supervised Audio-Visual Video Parsing Toward Unified Multisensory Perception", Sight and Sound Workshop, CVPR, 2020.
- Yapeng Tian, Chenxiao Guan, Goodman Justin, Marc Moore, and Chenliang Xu, "Audio-Visual Interpretable and Controllable Video Captioning", Sight and Sound Workshop, CVPR, 2019.
- Yapeng Tian, Jing Shi, Bochen Li, Zhiyao Duan, and Chenliang Xu, "Audio-Visual Event Localization in the Wild", Sight and Sound Workshop, CVPR, 2019. (Oral)
- Wei Wang*, Ruiming Guo*, Yapeng Tian, and Wenming Yang, "CFSNet: Toward a Controllable Feature Space for Image Restoration", ICCV, 2019. (*Equal contribution.)
- Yulun Zhang, Yapeng Tian, Yu Kong, Bineng Zhong, Yun Fu, "Residual Dense Network for Image Super-Resolution," CVPR, 2018. (Spotlight)
- Radu Timofte, Eirikur Agustsson, Luc Van Gool, ..., **Yapeng Tian**, ..., "NTIRE 2017 Challenge on Single Image Super-Resolution: Methods and Results," Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, 2017.
- Xuesen Shang, Wenming Yang, Shuifa Sun, **Yapeng Tian**, Hai Chen, Kaiquan Chen, "Adaptive Anchor-Point Selection for Single Image Super-Resolution," VCIP, 2017.
- Yapeng Tian, Fei Zhou, Wenming Yang*, Xuesen Shang and Qingmin Liao, "Anchored Neighborhood Regression based Single Image Super-Resolution from Self-Examples," ICIP, 2016.
- Wenming Yang, Yapeng Tian, Fei Zhou, Tingrong Yuan, Xuesen Shang and Qingmin Liao, "Single-Image Super-Resolution Using Clustering-Based Global Regression and Propagation Filtering," ACPR, 2015. (Oral)

Journal Publications

- Yulun Zhang, Yapeng Tian, Yu Kong, Bineng Zhong, Yun Fu, "Residual Dense Network for Image Restoration," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2020.
- Wenming Yang, Xuechen Zhang, Yapeng Tian, Wei Wang, Jing-Hao Xue, Qingmin Liao, "LCSCNet: Linear Compressing Based Skip-Connecting Network for Image Super-Resolution," IEEE Trans. Image Process. (TIP), 2019.
- Wenming Yang, Xuechen Zhang, Yapeng Tian, Wei Wang, Jing-Hao Xue, Qingmin Liao, "Deep Learning for Single Image Super-Resolution: A Brief Review," IEEE Trans. Multimedia (TMM), 2019.
- Wenming Yang, Yapeng Tian, Fei Zhou*, Qingmin Liao, Hai Chen and Chenglin

Zheng, "Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries," IEEE Trans. Multimedia (TMM), 2016. (as first student author and Prof. Wenming Yang was my master advisor)

TEACHING EXPERIENCE

Teaching Assistant

- Spring 2019 CSC249/449: Machine Vision, University of Rochester
- Fall 2018 CSC577: Advanced Topics in Computer Vision, University of Rochester
- Spring 2018 CSC249/449: Machine Vision, University of Rochester
- Fall 2015: Digital image processing and its applications, Tsinghua University
- Spring 2016: Practice of digital image processing, Tsinghua University

Honors and Awards

• Top 10% of high-scoring reviewers for NeurIPS	2020
Amazon Graduate Student Symposium, Seattle, USA (invited)	2019
Outstanding Graduate of Tsinghua University (Top 1%)	2017
Outstanding Master Thesis Award, Tsinghua University	2017
• National Scholarship (Top 2%), Tsinghua University, China	2016
• Second-class Scholarship, Tsinghua University, China	2015

Professional Activities

Reviewers

- Conferences: CVPR 2019, ICCV 2019, AAAI 2020, CVPR 2020, ECCV 2020, NeurIPS 2020, ICLR 2021, WACV 2020, ACCV 2021, AAAI 2021, CVPR 2021.
- Journals: CVIU, IEEE TMM, IEEE TCSVT, IEEE Access, Signal Processing: Image Communication, Neurocomputing, Computer Graphics Forum

Attended Conferences and Symposiums

ECCV, Virtual Conference	Aug. 2020
CVPR, Virtual Conference	June 2020
CVPR, Long Beach, USA	June 2019
Amazon Graduate Student Symposium, Seattle, USA	
ECCV, Munich, Germany	Sep. 2018
• IEEE International Conference on Image Processing, Phoenix, America	
Asian Conference on Pattern Recognition, Kuala Lumpur, Malaysia	

Membership

• IEEE Student Member

SKILLS

- Languages: Mandarin (native), English.
- Programming: Python, Pytorch, Keras, MATLAB, C/C++, Opency, LATEX.