

Yapeng TIAN

CONTACT INFORMATION	The Department of Electronic Engineering, Tsinghua University, Beijing, China, 100084.	+86-13128953345 ✉ yapengtian@rochester.edu http://yapengtian.org/
RESEARCH INTERESTS	<ul style="list-style-type: none">• Machine Learning: Regression, Dictionary Learning, Deep Learning.• Low-Level Vision: Single image super-resolution, Edge-preserving image smoothing, Guided depth map upscaling.	
EDUCATION	Tsinghua University , Beijing, China • M.E. in The Department of Electronic Engineering • Advisor: <i>Assoc. Prof.</i> Wenming Yang • GPA: 90.55/100 (Rank: 3/52) Xidian University , Xi'an, China • B.E. in Intelligence Science and Technology (School of Electronic Engineering)	Sep. 2014 – July 2017 Aug. 2009 – July 2013
RESEARCH EXPERIENCE	Department of Electronic Engineering, Tsinghua University • <i>Research Assistant</i> with <i>Assoc. Prof.</i> Wenming Yang Project 1: Single image super-resolution • Difficulty: complicated nonlinear relationships between low-resolution and high-resolution image patches and visually unpleasing artifacts in super-resolved images introducing by inaccurate representations of image patches Project 2: Image-guided depth map upscaling • Difficulty: low-resolution depth map with limited fine structures and inconsistent structures between depth maps and its corresponding guided images SIAT, Chinese Academy of Sciences • <i>Visiting Student</i> with <i>Prof.</i> Yu Qiao Project: Deep learning for low-level vision	Mar. 2015 – Present Mar. 2015 – Present Oct. 2016 – Present Nov. 2016 – Present
JOURNAL PUBLICATIONS	(Dr. Wenming Yang and Dr. Fei Zhou are my master supervisors, * corresponding author.) <ul style="list-style-type: none">• Wenming Yang, Yapeng Tian, Fei Zhou*, Qingmin Liao, Hai Chen and Chenglin Zheng, "Consistent Coding Scheme for Single-Image Super-Resolution Via Independent Dictionaries," <i>IEEE Trans. Multimedia (TMM)</i>, vol. 18, no. 3, pp. 313-325, Mar. 2016.	
CONFERENCE PUBLICATIONS	<ul style="list-style-type: none">• Yapeng Tian, Fei Zhou, Wenming Yang*, Xuesen Shang and Qingmin Liao, "Anchored Neighborhood Regression based Single Image Super-Resolution from Self-Examples," <i>Proceedings of IEEE International Conference on Image Processing (ICIP)</i>, 2016.• Wenming Yang, Yapeng Tian, Fei Zhou, Tingrong Yuan, Xuesen Shang and Qingmin Liao, "Single-Image Super-Resolution Using Clustering-Based Global Regres-	

sion and Propagation Filtering,” Proceedings of Asian Conference on Pattern Recognition (ACPR), 2015. (Oral)

- CHINESE PATENTS • Wenming Yang, **Yapeng Tian**, Fei Zhou, Qingmin Liao, Hai Chen and Chenglin Zheng, “Consistent Coding Scheme for Single-Image Super-Resolution,” (with Huawei Technologies Co., Ltd.), Under review.
- Wenming Yang, **Yapeng Tian**, Fei Zhou, Qingmin Liao, Hai Chen and Chenglin Zheng, “Relaxed Representation for Single Image Super-Resolution,” (with Huawei Technologies Co., Ltd.), Under review.

- TEACHING EXPERIENCE **Teaching Assistant**
- Fall 2015: Digital image processing and its applications, Tsinghua University
 - Spring 2016: Practice of digital image processing, Tsinghua University

- HONORS AND AWARDS
- **National Scholarship (Top 2%)** 2016
 - Second-class Scholarship 2015

- PROFESSIONAL ACTIVITIES **Attended Conferences**
- IEEE International Conference on Image Processing, Phoenix, America Sep. 2016
 - Asian Conference on Pattern Recognition, Kuala Lumpur, Malaysia Nov. 2015
- Membership**
- IEEE Student Member

- SKILLS
- Languages: Mandarin (native), English.
 - Programming: MATLAB, C/C++, Python, Keras, Opencv, L^AT_EX.