

Tsung-Yu Lin

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University of Massachusetts Amherst
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EDUCATION	<i>PhD in Computer Science</i> , College of Information and Computer Science University of Massachusetts Amherst Aug. 2014 ~ present
	<i>Master in Computer Science</i> , Department of Computer Science National Tsing Hua University, Hsinchu, Taiwan Sep. 2008 ~ Jun. 2010 Thesis: Combining Shape Prior with Non-Rigid SfM for Recovering Specific 3D Deformable Surface
	<i>Bachelor of Science</i> , Department of Computer Science National Tsing Hua University, Hsinchu, Taiwan Sep. 2006 ~ Jun. 2008 Major: Computer Science Minor: Mathematics
WORKING EXPERIENCE	<i>Graduate Research Assistant</i> College of Information and Computer Science, University of Massachusetts Amherst Supervisor: Prof. Subhansu Maji Aug. 2014 ~ present
	<i>Intern</i> Facebook Applied Machine Learning Supervisor: Prof. Alex Berg and Prof Tamara Berg June 2019 ~ Aug 2019
	<i>Intern</i> Amazon AWS Deep Learning Supervisor: Prof. R. Manmatha and Prof Deva. Ramanam June 2017 ~ Nov 2017
	<i>Research Assistant</i> Institute of Information Science, Academia Sinica, Taiwan Supervisor: Dr. Tyng-Luh Liu Oct. 2011 ~ May. 2014
	<i>Political Warfare Officer</i> Second Lieutenant, mandatory military service at ROC Army. Mar. 2011 ~ Sep. 2011
	<i>Intern</i> Advanced Technology Development Div., MediaTek Incorporation • Project on developing augmenting reality system Jul. 2011 ~ Aug. 2011
	<i>Graduate Research Assistant</i> Computer Science Department, National Tsing Hua University, Taiwan Supervisor: Prof. Shang-Hong Lai Sep. 2008 ~ Jun. 2010

TEACHING EXPERIENCE	Teaching Assistant	CMPSCI 370 Intorduction to Computer Vision
	College of Information and Computer Sciences, UMass Amherst	2019 Spring
	Teaching Assistant	CMPSCI 670 Computer Vision
	College of Information and Computer Sciences, UMass Amherst	2016 Fall
	Teaching Assistant	CS 3332 Probability and Statistics
	Department of Computer Science, National Tsing Hua University	2009 Fall

HONORS	<i>Selected to attend CVPR doctoral consortium</i>	CVPR2019
	<i>Nominated as outstanding reviewers</i>	CVPR 2018
	<i>Student Travel Grant to ICCV</i>	UMass Amherst 2015
	<i>The Robin Popplestone Memorial Fellowship</i>	UMass Amherst 2014

PUBLICATIONS *Journal*

1. **Bilinear Convolutional Neural Networks for Fine-grained Visual Recognition**
Tsung-Yu Lin, Aruni RoyChowdhury, and Subhransu Maji
PAMI 2017
2. **MistNet: Measuring Historical Bird Migration in the US Using Archived Weather Radar Data and Convolutional Neural Networks**
Tsung-Yu Lin, Kevin Winner, Garrett Bernstein, Abhay Mittal, Adriaan M. Dokter, Kyle G. Horton, Cecilia Nilsson, Benjamin M. Van Doren, Andrew Farnsworth, Frank A. La Sorte, Subhransu Maji, and Daniel Sheldon
Methods in Ecology and Evolution, 2019

Conference

1. **Second-order Democratic Aggregation**
Tsung-Yu Lin, Subhransu Maji, and Piotr Koniusz
ECCV 2018, Munich, Germany
2. **Improved Bilinear Pooling with CNNs**
Tsung-Yu Lin, and Subhransu Maji
BMVC 2017, London, United Kindom (oral presentation)
3. **Visualizing and Understanding Deep Texture Representations**
Tsung-Yu Lin, and Subhransu Maji
CVPR 2016, Las Vegas, Nevada
4. **One-to-many Face Recognition with Bilinear CNNs**
Aruni RoyChowdhury, Tsung-Yu Lin, Subhransu Maji, and Erik Learned-Miller
WACV 2016, Lake Placid, New York
5. **Bilinear CNN Models for Fine-grained Visual Recognition**
Tsung-Yu Lin, Aruni RoyChowdhury, and Subhransu Maji
ICCV 2015, Santiago, Chile (oral presentation)
6. **Efficient Binary Codes for Extremely High-dimensional Data**
Tsung-Yu Lin and Tyng-Lug Liu
ICIP 2014, Paris, France
7. **People Localization in A Camera Network Combining Background Subtraction and Scene-aware Human Detection**
Tung-Ying Lee, Tsung-Yu Lin, Szu-Hao Huang, Shang-Hong Lai, and Shang-Chih Hung
MMM 2011, Taipei, Taiwan

Technical reports and preprints (non peer-reviewed)

1. **Implicit Sparse Code Hashing**

Tsung-Yu Lin, Tsung-Wei Ke and Tyng-Luh Liu
arXiv:1512.00130, 2015

PROFESSIONAL *Conference and Journal Reviewing*
SERVICE

- Computer Vision and Pattern Recognition (CVPR 2018, 2019)
- International Conference on Computer Vision (ICCV 2017, 2019)
- British Machine Vision Conference (BMVC 2019)
- IEEE Transactions on Pattern Analysis and Machine Intelligence
- International Journal of Computer Vision