

# Tsung-Yu Lin

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College of Information and Computer Sciences  
University of Massachusetts Amherst  
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**EDUCATION**      *PhD in Computer Science* College of Information and Computer Science  
University of Massachusetts Amherst      Aug. 2014 ~ present

*Master in Computer Science* 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

*Bachelor of Science*, Department of Computer Science  
National Tsing Hua University, Hsinchu, Taiwan      Sep. 2006 ~ Jun. 2008  
Major: Computer Science  
Minor: Mathematics

**WORKING EXPERIENCE**      *Graduate Research Assistant*      Aug. 2014 ~ present  
College of Information and Computer Science, University of Massachusetts Amherst  
Supervisor: Prof. Subhransu Maji

*Intern*      June 2017 ~ Nov 2017  
Amazon AWS Deep Learning  
Supervisor: Prof. R. Manmatha and Prof Deva. Ramanam

*Research Assistant*      Oct. 2011 ~ May. 2014  
Institute of Information Science, Academia Sinica, Taiwan  
Supervisor: Dr. Tyng-Luh Liu

*Political Warfare Officer*      Mar. 2011 ~ Sep. 2011  
Second Lieutenant, mandatory military service at ROC Army.

*Intern*      Jul. 2011 ~ Aug. 2011  
Advanced Technology Development Div., MediaTek Incorporation  
• Project on developing augmenting reality system

*Graduate Research Assistant*      Sep. 2008 ~ Jun. 2010  
Computer Science Department, National Tsing Hua University, Taiwan  
Supervisor: Prof. Shang-Hong Lai

**TEACHING EXPERIENCE**      *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

Student Travel Grant to ICCV  
The Robin Popplestone Memorial Fellowship

UMass Amherst 2015  
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*

### **Conference**

1. **Improved Bilinear Pooling with CNNs**

*Tsung-Yu Lin, and Subhransu Maji*  
*BMVC 2017, London, United Kingdom (oral presentation)*

2. **Visualizing and Understanding Deep Texture Representations**

*Tsung-Yu Lin, and Subhransu Maji*  
*CVPR 2016, Las Vegas, Nevada*

3. **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*

4. **Bilinear CNN Models for Fine-grained Visual Recognition**

*Tsung-Yu Lin, Aruni RoyChowdhury, and Subhransu Maji*  
*ICCV 2015, Santiago, Chile (oral presentation)*

5. **Efficient Binary Codes for Extremely High-dimensional Data**

*Tsung-Yu Lin and Tying-Luh Liu*  
*ICIP 2014, Paris, France*

6. **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 Tying-Luh Liu*  
*arXiv:1512.00130, 2015*

## PROFESSIONAL *Conference and Journal Reviewing*

### SERVICE

- International Conference on Computer Vision (ICCV 2017)
- IEEE Transactions on Pattern Analysis and Machine Intelligence