

TZU-MING HARRY HSU

Computer Science and Artificial Intelligence Laboratory, MIT
2nd year Ph.D. Student in the Department of Electrical Engineering and Computer Science

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PUBLICATIONS

Conference Proceedings

- 3D-Aware Scene Manipulation via Inverse Graphics
*Tzu-Ming Harry Hsu**, Shunyu Yao*, Jun-Yan Zhu, Jiajun Wu, Antonio Torralba, William T. Freeman, and Joshua B. Tenenbaum. NIPS 2018
- Learning Food Quality and Safety using Wireless Stickers
Unsoo Ha, Yunfei Ma, Zexuan Zhong, *Tzu-Ming Harry Hsu*, and Fadel Adib. Hotnets 2018
- Transfer Neural Trees for Heterogeneous Domain Adaptation
Wei-Yu Chen, *Tzu-Ming Harry Hsu*, Yao-Hung Hubert Tsai, and Yu-Chiang Frank Wang. ECCV 2016
- Unsupervised Domain Adaptation With Imbalanced Cross-Domain Data
Tzu-Ming Harry Hsu, Wei-Yu Chen, Cheng-An Hou, Yao-Hung Hubert Tsai, Yi-Ren Yeh, and Yu-Chiang Frank Wang. ICCV 2015
- Connecting the Dots Without Clues: Unsupervised Domain Adaptation for Cross-domain Visual Classification
Wei-Yu Chen, *Tzu-Ming Harry Hsu*, Cheng-An Hou, Yi-Ren Yeh and Yu-Chiang Frank Wang. ICIP 2015

RESEARCH EXPERIENCE

Clinical Decision Making Group

Prof. Peter Szolovits

Jul 2018 – Ongoing MIT CSAIL

- Unsupervised Alignment of Medical Radiology Data and Clinician Reports

Computer Vision Group

Feb 2018 – June 2018 MIT CSAIL

- 3D-aware Inverse-Graphics

Signal Kinetics Lab

Prof. Fadel Adib

Sep 2017 – Jan 2018 MIT Media Lab

- Mobile Localization in LTE Cellular Network
- Food Quality and Content Detection with Wireless Signal

Multimedia and Machine Learning Lab

Prof. Yu-Chiang Wang

Apr 2014 – Jun 2016 Academia Sinica, Taiwan

- Unsupervised Domain Adaptation with Imbalanced Cross-domain Data
- Deep Learning for Heterogeneous Domain Adaptation

HIGHLIGHT



Ranked #1 in IPhO
International Physics Olympiad
2011 with 400+ participants



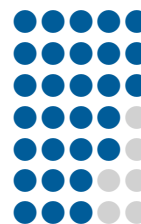
2 years in Startup
Bite! App with 50k users and
100k food diaries

STRENGTHS

Machines Learning ML for Healthcare
Computer Vision Signal Processing

SKILLS

TensorFlow
PyTorch
Docker
C/C++
MATLAB
Java
HTML/CSS/JS



EDUCATION

Ph.D. Student in Computer Science

Massachusetts Institute of Technology

Sep 2017 – Ongoing

B.S.E. in Electrical Engineering

National Taiwan University

Sep 2011 – Jun 2016

Class Rank: 1/190

GPA: 3.99/4.00

B.S. in Physics

National Taiwan University

Sep 2012 – Jun 2016

RESEARCH EXPERIENCE (CONT'D)

Access IC Lab

Prof. An-Yeu Andy Wu

📅 Sep 2014 – Jun 2015 📍 NTU, Taiwan

- Noise Removal of Photoplethysmographic Signals

Laboratory for Applied Logic and Computation in System Design (ALCom Lab)

Prof. Jie-Hong Roland Jiang

📅 Jul 2013 – Jun 2014 📍 NTU, Taiwan

- Continuous-Time Mathematical Models for Neurons

AWARDS

Altera Innovate Asia FPGA Design Competition

Silver Medal

📅 2015

- Designed a custom PCB for music modulation and user sporting statistics

ICASSP Signal Processing Cup

Tenth Place

📅 2015

- Ranked 10th globally in heartbeat detection for sports

International Physics Olympiad (IPhO)

First Place Overall, in Theory, and in Experiment

📅 2011

- Ranked 1st in both theory section and experiment section among 401 international representatives from over 80 countries

International Junior Science Olympiad (IJSO)

Gold Medal

📅 2008

- Ranked top 10% among 300 international representatives from over 60 countries

LEADERSHIP

MIT Taiwanese Student Association

President

📅 May 2018 – Ongoing

NTU Toastmasters Club

Public Relations/Member Vice President

📅 Mar 2014 – Feb 2015

WORK EXPERIENCE

Digital Drift Corporation

Lead Data Scientist

📅 Mar 2016 – Ongoing