## Yao-Hung (Hubert) Tsai


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**Research Interests**

I'm interested in Deep Learning and its applications in Computer Vision, Natural Language Processing, and their intersection.

**Education**

**Carnegie Mellon University**, Pittsburgh, PA, USA — Aug 2016 - Present

Ph.D. in Machine Learning within School of Computer Science

- *Advisor:*

**National Taiwan University**, Taipei, Taiwan — Aug 2010 - Jun 2014

B.S. in Electrical Engineering

- *Overall Ranking: 9/198 with 3 times Presidential Awards (top 5% each semester)*
- *Department Representative to Receive Undergraduate Diploma*

**Submitted Journal Publications**

1. Cheng-An Hou, **Yao-Hung Hubert Tsai**, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Unsupervised Domain Adaptation with Label and Structural Consistency", minor revision in *IEEE Transactions on Image Processing (TIP)*.

**Conference Publications**

1. **Yao-Hung Hubert Tsai**, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Learning Cross-Domain Landmarks for Heterogeneous Domain Adaptation", *Computer Vision and Pattern Recognition (CVPR)*, 2016.
2. Yuan-Ting Hsieh*, Shih-Yen Tao*, **Yao-Hung Hubert Tsai**, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Generalized Joint Distribution Adaptation on Heterogeneous Feature Space", *International Conference on Multimedia & Expo (ICME)*, 2016. (*equal contributions) **(Oral Presentation)**
3. **Yao-Hung Hubert Tsai**, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Heterogeneous Domain Adaptation with Label and Structure Consistency", *International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2016.
4. **Yao-Hung Hubert Tsai**, Cheng-An Hou, Wei-Yu Chen, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Domain-Constraint Transfer Coding for Imbalanced Unsupervised Domain Adaptation", *Association for the Advancement of Artificial Intelligence (AAAI)*, 2016.
5. Tzu-Ming Harry Hsu, Wei-Yu Chen, Cheng-An Hou, **Yao-Hung Hubert Tsai**, Yi-Ren Yeh and Yu-Chiang Frank Wang. "Unsupervised Domain Adaptation with Imbalanced Cross-Domain Data", *International Conference on Computer Vision (ICCV)*, 2015.
6. **Yao-Hung Tsai***, Hung-Ming Hsu*, Cheng-An Hou and Yu-Chiang Frank Wang. "Person-specific Domain Adaptation with Applications to Heterogeneous Face Recognition", *International Conference on Image Processing (ICIP)*, 2014. (*equal contributions)
7. Po-Chen Wu, **Yao-Hung Tsai** and Shao-Yi Chien. "Stable Pose Tracking from a Planar Target with an Analytical Motion Model in Real-time Applications", *International Workshop on Multimedia Signal Processing (MMSP)*, 2014.

## Selected Awards & Honors

**Student Awards**, Dept. of Electrical Engineering, National Taiwan University

Presidential Awards (3 times) — Feb 2011, Sep 2012, Feb 2014

- *Awarded to students with the top 5% GPA for that semester*

Department Representative to Receive Undergraduate Diploma — Jun 2014

- *Awarded to students with the top 5% GPA over all semesters*

## Research Experience

**Graduate Student Researcher**, Carnegie Mellon University — Aug 2016 - Present

Researching in Deep Learning, Computer Vision, and Natural Language Processing

- *Supervisor:*

**Research Assistant**, CITI, Academia Sinica — Aug 2015 - Aug 2016

Researching in person re-identification, domain adaptation, and zero-shot learning

- *Supervisor: Dr. Yu-Chiang Frank Wang*

## Work & Teaching Experience

**Teaching Assistant & Mentor**, CITI, Academia Sinica — Aug 2015 - Aug 2016

Mentoring undergrad students for the independent research

- *Works for ICCV and ICME*

Providing *Deep Learning* tutorial for undergrad students

**Political Warfare Officer**, R.O.C. Air Force — Aug 2014 Jul 2015

Compulsory Military Service

## References

Dr. Yu-Chiang Frank Wang

Associate Research Fellow
Research Center for IT Innovation, Room 232
Academia Sinica

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