

YUAN-TING HSIEH

(+886) 988-595-693 \diamond yuantinghsieh@gmail.com

<https://github.com/YuanTingHsieh>

RESEARCH INTERESTS

Computer Vision, Deep Learning, Natural Language Processing

EDUCATION

National Taiwan University

09/2012 - 01/2017

B.S. in Electrical Engineering

Taipei, Taiwan

- **GPA:** Overall 3.92/4.30 (3.83/4.00), Last 60 units 4.20/4.30 (4.00/4.00)
- **Relevant Courses:** Machine Learning*, Data Science*, Data Structure and Programming, Probability and Statistics, Algorithms, Operating System, Computer Architecture, Introduction to Computer Networks, Linear Algebra(*: graduate-level courses)

PUBLICATIONS

Conference Papers

- [1] **Yuan-Ting Hsieh***, Shih-Yen Tao*, Yao-Hung Hubert Tsai, Yi-Ren Yeh and Yu-Chiang Frank Wang, "Recognizing Heterogeneous Cross-Domain Data via Generalized Joint Distribution Adaptation", in IEEE *ICME* 2016. (selected as Top 15% paper for oral presentation; * indicates equal contributions)

RESEARCH EXPERIENCES

Speech Processing Lab

09/2015 - 01/2017

Advisor: Prof. Lin-Shan Lee

National Taiwan University

- Keyterm extraction using attention-based Long Short-Term Memory networks
- Implemented an MOOC-lectures structuring method for efficient online learning
- Hands-on practice in building and training an Automatic Speech Recognition system

Multimedia and Machine Learning Lab

03/2015 - 09/2016

Advisor: Dr. Yu-Chiang(Frank) Wang

CITI, Academia Sinica, Taiwan

- Focused on domain adaptation and zero-shot learning(ZSL)
- Proposed a method that matches the distribution of source and target domain in a common space [1]
- Proposed a method which finds a common space for relating visual and semantic concepts to solve ZSL

Access IC Lab

09/2014 - 04/2016

Advisor: Prof. An-Yeu(Andy) Wu

National Taiwan University

- Participated National Science Council project of Robust Green Computing System
- Designed and implemented a 64-point radix 2^2 FFT hardware using MATLAB and Verilog
- Assisted in Lab's cooperation with Raydium Semiconductor Corp. by implementing 256-point FFT

Speech Processing and Machine Learning Lab

02/2016 - 07/2016

Advisor: Prof. Hung-Yi Lee

National Taiwan University

- Conducted research on movie question-answering(MovieQA)
- Applied bi-directional Gated Recurrent Unit to do Machine Comprehension Test

HONORS & AWARDS

- Presidential Award (3 times)** 02/2015, 09/2015, 02/2016
Department of Electrical Engineering *National Taiwan University*
· Awarded to top 5% of students in the department
- College Student Research Creativity Award** 07/2016
National Science Council *Taipei, Taiwan*
· Highest national award for college students on research activity
- College Student Research Scholarship** 07/2015 - 02/2016
National Science Council *Taipei, Taiwan*
· Awarded to undergraduate students nationwide for excellent research project with monthly stipend
· Researched on dynamic N-modular redundancy(NMR) error resilience design for multi-core system
- Third Prize Award** 2015
Integrated Circuits Computer Aided Design Contest *Ministry of Education, Taiwan*
· Optimized color balancing for circuits' double patterning

SELECTED TERM PROJECTS

- Machine Learning** 09/2015 - 01/2016
· Extracted users' behavior feedbacks and analyzed with Gradient Boosting Decision Tree to predict every individual dropout in MOOC. Top 20% in class. (Data originated from KDD cup 2015)
- Psychoinformatics and Neuroinformatics** 09/2015 - 01/2016
· Applied node.js to build a web server for an interactive game
- Data Structure and Programming** 09/2014 - 01/2015
· Implemented a Functionally Reduced And-Inverter Graph program to optimize circuits' gate count

EXTRACURRICULAR

- Activities Director** 08/2014 - 03/2015
Electrical Engineering Student Association *National Taiwan University*
· Coordinated with members and organized various events for over 200 people, including BBQ, EE's week, EE's night, Music Stage, Roast chicken eating contest, etc.
· Led four other departments to arrange a Christmas party; all 400 tickets were sold
- Chief Coordinator** 02/2013 - 09/2014
Freshmen Welcome Camp *Miaoli, Taiwan*
· Collaborated with Department of Library and Information Science to schedule a 3-day event
· Saved more than NT\$ 50,000 budget for this event

TECHNICAL STRENGTHS

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|------------------------------|---|
| Programming Languages | C/C++, Python, MATLAB, Verilog, HTML/CSS/JS, Java, Shell script |
| Languages | Mandarin(Fluent), English(Proficient), Spanish(Intermediate) |
| Tools | Keras, Github, LaTeX |