

YU-YING YEh

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EDUCATION

- University of California San Diego (UCSD)** Sep. 2018 - Present
Master's Student, Computer Science and Engineering La Jolla, CA
- National Tsing Hua University (NTHU)** Sep. 2016 - Jan. 2017
Non-matriculated Status, Computer Science, Overall GPA: 4.30/4.30 Hsinchu, Taiwan
- National Chiao Tung University (NCTU)** Sep. 2016 - Jan. 2017
Non-matriculated Status, Computer Science, Overall GPA: 4.30/4.30 Hsinchu, Taiwan
- National Taiwan University (NTU)** Sep. 2010 - Jun. 2015
B.Sc. in Physics and B.A. in Economics, Overall GPA: 3.80/4.30 Taipei, Taiwan
- **Computer Science Courses:**
Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Architecture
 - **Mathematics Courses:**
Calculus, Linear Algebra, Statistics, Differential Equations, Advanced Statistical Inference
 - **Award:** Excellent Work in 2011 Competition for Innovative Experiments in General Physics
 - **MOOC:** Machine Learning (Coursera, NTU), Computer Programming (NTU OpenCourseWare)

RESEARCH EXPERIENCE

- Vision and Learning Lab, National Taiwan University** Sep. 2017 - Present
- Multimedia and Machine Learning Lab, Academia Sinica** Oct. 2016 - Aug. 2017
Research Assistant, Supervised by Prof. Yu-Chiang Frank Wang Taipei, Taiwan
- **Completing Videos from a Deep Glimpse [4]**
Generated full-length videos given frames occurring on specific timing
Leveraged image-based and temporal-based deep generative models and recurrent neural networks
 - **Single-Image Depth Estimation with Semantics Consistency**
Exploited image semantics for improved disparity estimation from monocular images.
 - **Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation [1]**
First work to address adaptation of feature disentanglement and learn cross-domain disentangled representation
Conducted cross-domain image synthesis and translation given attribute information
 - **Award:** First Place Award in GAN Project Competition 2017, Ministry of Science and Technology, Taiwan

PUBLICATION

- [1] Y.-C. Liu, **Y.-Y. Yeh**, T.-C. Fu, S.-D. Wang, W.-C. Chiu, & Y.-C. F. Wang. Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation. In *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. (**Spotlight Presentation**)
- [2] Y.-J. Li, F.-E. Yang, Y.-C. Liu, **Y.-Y. Yeh**, X. Du, & Y.-C. F. Wang. Adaptation and Re-Identification Network: An Unsupervised Deep Transfer Learning Approach to Person Re-Identification. In *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshop)*, 2018.
- [3] A. Liu, Y.-C. Liu, **Y.-Y. Yeh**, Y.-C. F. Wang. Anonymous Paper Title. In *Conference on Neural Information Processing Systems (NIPS)*, 2018. (under review)
- [4] **Y.-Y. Yeh**, Y.-C. Liu, W.-C. Chiu, & Y.-C. F. Wang. Anonymous Paper Title. In *European Conference on Computer Vision (ECCV)*, 2018. (under review)

TEACHING EXPERIENCE

Deep Learning for Computer Vision, National Taiwan University

Teaching Assistant, Instructed by Prof. Yu-Chiang Frank Wang

Mar. 2018 - Present

Taipei, Taiwan

Algorithms, National Taiwan University

Teaching Assistant, Instructed by Prof. Yu-Chiang Frank Wang

Sep. 2017 - Jan. 2018

Taipei, Taiwan

SELECTED PROJECTS

Intelligent Conversational Bot

Group project, Instructed by Prof. Yun-Nung Vivian Chen

Feb. 2017 - Jun. 2017

Dept. of CSIE, NTU

- Designed and built DoctorBot for answering questions related to hospitals and common symptoms and conducting reservation requests by using Python and TensorFlow toolkit
- Leveraged reinforcement learning and combine Language Understanding, Dialogue Management and Natural Language Generation to train task-oriented bot

Operating Systems

Course project, Instructed by Prof. Jerry Chou

Sep. 2016 - Jan. 2017

Dept. of Computer Science, NTHU

- Improved NachOS, implemented by C++, by adding system call, supporting multi-programming, implementing process scheduling algorithm and supporting file system

Computer Architecture

Course project, Instructed by Prof. Ting-Ting Hwang

Sep. 2016 - Jan. 2017

Dept. of Computer Science, NTHU

- Realized system call, loop, and function call using MIPS assembly language
- Implemented indexing algorithm design for processor cache

Numerical Analysis and Programming

Course project, Instructed by Prof. Ying-Jer Kao

Feb. 2013 - Jun. 2013

Dept. of Physics, NTU

- Used Python and Scipy to model gravitational field and found best trajectories for moving object

WORK EXPERIENCE

Cathay United Bank

Assistant Structured Product Manager

Aug. 2015 - Jun. 2016

Taipei, Taiwan

- Developed structured products to satisfy clients demand by analyzing market trend
- Built automatic cash flow calculator for products from Reuters database with Excel VBA

POSITION OF RESPONSIBILITY

NTU Physics Volleyball Team

Captain

Feb. 2012 - Jun. 2013

Taipei, Taiwan

- Scheduled training courses and instructed core knowledge of volleyball to members
- Led team in college-wide games held in different cities in Taiwan

Night of Physics: an annual department-wide performance

Director

Sep. 2011 - Mar. 2012

Taipei, Taiwan

- Spearheaded a team of 70 people to successfully conduct 4-hour performance in student center with more than 300 attendees
- Efficiently organized meetings with group leaders and communicated among groups.

TECHNICAL STRENGTHS

Computer Languages

Software & Tools

Languages

C/C++, Python(TensorFlow), Octave/Matlab, VBA

Stata, HTML, Excel , L^AT_EX

Chinese Mandarin (Native), English (Fluent), Japanese (Basic)