

YU-YING YEh

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EDUCATION

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.S. 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

- **Single-Image Depth Estimation with Semantics Consistency [1]**

Exploited image semantics for improved disparity estimation from monocular images.

- **Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation [2]**

First work to address adaptation of feature disentanglement and learn cross-domain disentangled representation

Achieved state-of-the-art accuracy in unsupervised domain adaptation

Conducted cross-domain image synthesis and translation given attribute information

- **Few Frame Guided Video Generation and Inpainting**

Generated full-length videos given frames occurring on specific timing

Leveraged deep generative models, sequence-to-sequence model, and the concept of mutual information

- **Award:** First Place Award in GAN Project Competition 2017, Ministry of Science and Technology, Taiwan

PUBLICATION

[1] P.-Y. Chen, Y.-C. Liu, **Y.-Y. Yeh**, & Y.-C. F. Wang. Single-Image Depth Estimation with Semantics Consistency. (under review in ICIIP 2018)

[2] Y.-C. Liu, **Y.-Y. Yeh**, T.-C. Fu, W.-C. Chiu, S.-D. Wang, & Y.-C. F. Wang. Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation. In *Conference on Computer Vision and Pattern Recognition (CVPR 2018)*, 2018.

TEACHING EXPERIENCE

Algorithms, National Taiwan University Sep. 2017 - Present
Teaching Assistant, Instructed by Prof. Yu-Chiang Frank Wang
Taipei, Taiwan

- Designed assignments including handwriting questions and programming problems for 70 students
- Reviewed handwriting answers and verified codes by writing shell scripts
- Offered TA session every week and helped students understand materials in class

SELECTED PROJECTS

Intelligent Conversational Bot

Feb. 2017 - Jun. 2017

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

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

Sep. 2016 - Jan. 2017

Course project, Instructed by Prof. Jerry Chou

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

Sep. 2016 - Jan. 2017

Course project, Instructed by Prof. Ting-Ting Hwang

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

Feb. 2013 - Jun. 2013

Course project, Instructed by Prof. Ying-Jer Kao

Dept. of Physics, NTU

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

WORK EXPERIENCE

Cathay United Bank

Aug. 2015 - Jun. 2016

Assistant Structured Product Manager

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

Feb. 2012 - Jun. 2013

Captain

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

Sep. 2011 - Mar. 2012

Director

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

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

Software & Tools

Stata, HTML, Excel, \LaTeX

Languages

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