YU-YING YEH

EDUCATION

University of California San Diego (UCSD) Sep. 2018 - Present
Master's (Ph.D. since Fall'19) Student, Computer Science and Engineering *La Jolla, CA*

National Tsing Hua University & **National Chiao Tung University** Hsinchu, Taiwan
Non-matriculated Status, Computer Science, Overall GPA: 4.30/4.30 *Sep. 2016 - Jan. 2017*

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:**
  Computer Programming, Data Structures, Design and Analysis of Algorithms, Operating Systems, Computer Architecture, Machine Learning, Computer Vision, Selected Topics in Graphics
- **Mathematics Courses:**
  Calculus, Linear Algebra, Statistics, Differential Equations, Advanced Statistical Inference
- **Award:** Excellent Work in 2011 Competition for Innovative Experiments in General Physics

RESEARCH EXPERIENCE

Center of Visual Computing, University of California, San Diego Sep. 2018 - Present
Graduate Research Assistant, Supervised by Prof. Manmohan Chandraker *La Jolla, CA*

- **Domain Adaptation for Shape Reconstruction of Transparent Objects**
  Leveraged adversarial training for learning domain-invariant feature space to tackle the domain gaps

Vision and Learning Lab, National Taiwan University Sep. 2017 - Aug. 2018
Multimedia and Machine Learning Lab, Academia Sinica Oct. 2016 - Aug. 2017
Research Assistant, Supervised by Prof. Yu-Chiang Frank Wang *Taipei, Taiwan*

- **Video Inference from a Deep Glimpse (Under Review in IJCAI19)**
  Generated full-length videos given frames occurring on specific timing
  Leveraged image-based and temporal-based deep generative models and recurrent neural networks
- **Detach and Adapt: Learning Cross-Domain Disentangled Deep Representation [2]**
  First work to address adaptation of feature disentanglement and learn cross-domain disentangled representation
  Conducted cross-domain image synthesis and translation given attribute information
- **A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation [1]**
  Learned domain-invariant representation with a unified architecture for multiple domains
- **Single-Image Depth Estimation with Semantics Consistency**
  Exploited image semantics for improved disparity estimation from monocular images
- **Award:** First Place Award in GAN Project Competition 2017, Ministry of Science and Technology, Taiwan

PUBLICATION

[1] A. Liu, Y.-C. Liu, **Y.-Y. Yeh**, Y.-C. F. Wang. A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation. In *Conference on Neural Information Processing Systems (NeurIPS)*, 2018.

[2] 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**)

[3] 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.

TEACHING EXPERIENCE

Intro to Computer Vision, University of California, San Diego Jan. 2019 - Mar. 2019
Teaching Assistant, Instructed by Prof. Manmohan Chandraker *La Jolla, CA*

Deep Learning Crash Course for New Lab Members, National Taiwan University Jul. 2018
Lecturer of Introduction to Neural Network and Convolutional Neural Network *Taipei, Taiwan*

Deep Learning for Computer Vision, National Taiwan University Mar. 2018 - Jun. 2018
Teaching Assistant, Instructed by Prof. Yu-Chiang Frank Wang *Taipei, Taiwan*

Algorithms, National Taiwan University Sep. 2017 - Jan. 2018
Teaching Assistant, Instructed by Prof. Yu-Chiang Frank Wang *Taipei, Taiwan*

SELECTED PROJECTS

Selected Topics in Graphics Sep. 2018 - Dec. 2018
Course project, Instructed by Prof. Ravi Ramamoorthi *Dept. of Computer Science and Engineering, UCSD*

· Implement recurrent denoising autoencoder from scratch for interactively reconstruction of Monte Carlo image sequence.

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

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)