

Yen-Cheng Liu

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Education

Georgia Tech, Atlanta, GA

Ph.D. student, Machine Learning

GPA: 4.00/4.00

Aug. 2018 - Present

National Taiwan University, Taipei, Taiwan

M.S., Electrical Engineering

GPA: 4.19/4.30

Sep. 2015 - June 2017

Technical University of Munich, Munich, Germany

Exchange Student, EE&IT

Sep. 2014 - Mar. 2015

National Chiao Tung University, Hsinchu, Taiwan

B.S., Electrical and Computer Engineering

GPA: 4.24/4.30

Sep. 2011 - June 2015

Research Interest

Machine Learning, Computer Vision,
Domain Adaptation, Representation Learning, Multimodality Learning, Continual Learning.

Selected Publications

W.-Y. Chen, **Y.-C. Liu**, Z. Kira, Y.-C. F. Wang, J.-B. Huang. A Closer Look at Few-shot Classification, *International Conference on Learning Representations (ICLR)*, 2019

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

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, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018 (**Spotlight**)

Y.-Y. Yeh, **Y.-C. Liu**, W.-C. Chiu, Y.-C. F. Wang. Anonymous Paper Title, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019 (under review)

P.-Y. Chen, A. Liu, **Y.-C. Liu**, Y.-C. F. Wang. Anonymous Paper Title, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019 (under review)

Y.C. Hsu, **Y.-C. Liu**, Z. Kira. Re-evaluating Continual Learning Scenarios: A Categorization and Case for Strong Baselines, *Conference on Neural Information Processing Systems Workshops (NeurIPS Workshops)*, 2018

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, *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshops)*, 2018

T.-S. Kuo, K.-S. Tseng, J.-W. Yan **Y.-C. Liu**, Y.-C. F. Wang. Deep Aggregation Net for Land Cover Classification, *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshops)*, 2018

Y.-C. Liu, W.-C. Chiu, S.-D. Wang, Y.-C. F. Wang. Domain-Adaptive Generative Adversarial Networks for Sketch-to-Photo Inversion, *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, 2017

EXPERIENCE	Graduate Research Assistant	Georgia Tech Atlanta, GA
	Advisor: Prof. Zsolt Kira	
	<ul style="list-style-type: none"> • Continual Learning - Re-evaluated the current continual learning algorithms and strong baselines 	
	Research Assistant	National Taiwan University Taipei, Taiwan
	Advisor: Prof. Yu-Chiang Frank Wang	
	<ul style="list-style-type: none"> • Single-Image Depth Estimation with Semantics Consistency - Integrated unsupervised depth estimation with semantic segmentation - Proposed segment-based stereo consistency to improve depth estimation • Stochastic Video Synthesis and Completion - Extracted time-order representation from limited anchor frames - Achieved video prediction and interpolation based on sequence-sequence model 	
	Graduate Research	CITI, Academia Sinica Taipei, Taiwan
	Advisor: Prof. Yu-Chiang Frank Wang	
	<ul style="list-style-type: none"> • Learning Cross-Domain Disentangled Representation - Excelled the state-of-the-art in task of unsupervised domain adaptation - Achieved unsupervised image translation conditioned on given attribute • Domain-Adaptive GAN for Sketch Inversion - Proposed cross-style sketch-to-photo inversion based on generative models - Adapted the sketch-to-photo inversion to unsupervised sketch style 	
	Teaching Assistant	National Taiwan University Taipei, Taiwan
Academic Services	Instructor: Chung-Yang (Ric) Huang	
	Course: Data Structure and Programming	
	- Provided one-to-one assistance for 150+ students and graded the programming assignments	
	Reviewer: IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	
	Computer Languages: C, C++, Java, Perl, Bash, Python, MATLAB, Lua, SQL, L ^A T _E X.	
Skills	Toolbox/Software: TensorFlow, PyTorch, Theano, Torch, Caffe, Chainer, Unity.	
Honors & Awards	Rotary International Graduate Student Scholarship	2016
	Dean's List Award (4 times)	2011-2015
	Exchange Student Scholarship	2014
	Pan Wen Yuan Foundation Scholarship	2013