

Yen-Cheng Liu

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Page: <https://ycliu93.github.io>

Education	Georgia Tech , Atlanta, GA <i>Ph.D. student</i> , Machine Learning GPA: 4.00/4.00	Aug. 2018 - Present
	National Taiwan University , Taipei, Taiwan <i>M.S.</i> , Electrical Engineering GPA: 4.19/4.30	Sep. 2015 - June 2017
	Technical University of Munich , Munich, Germany <i>Exchange Student</i> , EE&IT	Sep. 2014 - Mar. 2015
	National Chiao Tung University , Hsinchu, Taiwan <i>B.S.</i> , Electrical and Computer Engineering GPA: 4.24/4.30	Sep. 2011 - June 2015
Research Interest	Machine Learning, Computer Vision, Domain Adaptation, Representation Learning, Multi-agent Learning.	
Selected Publications	P.-Y. Chen*, A. Liu*, Y.-C. Liu , Y.-C. F. Wang. Towards Scene Understanding: Unsupervised Monocular Depth Estimation with Semantic-aware Representation, <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2019 (Oral)	
	W.-Y. Chen, Y.-C. Liu , Z. Kira, Y.-C. F. Wang, J.-B. Huang. A Closer Look at Few-shot Classification, <i>International Conference on Learning Representations (ICLR)</i> , 2019	
	A. Liu, Y.-C. Liu , Y.-Y Yeh, Y.-C. F. Wang. A Unified Feature Disentangler for Multi-Domain Image Translation and Manipulation, <i>Conference on Neural Information Processing Systems (NeurIPS)</i> , 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, <i>IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> , 2018 (Spotlight)	
	Y.-Y. Yeh, Y.-C. Liu , W.-C. Chiu, Y.-C. F. Wang. Anonymous Paper Title, <i>International Joint Conference on Artificial Intelligence (IJCAI)</i> , 2019 (under review)	
	Y.C. Hsu, Y.-C. Liu , Z. Kira. Re-evaluating Continual Learning Scenarios: A Categorization and Case for Strong Baselines, <i>Conference on Neural Information Processing Systems Workshops (NeurIPS Workshops)</i> , 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, <i>IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshops)</i> , 2018	
	T.-S. Kuo, K.-S. Tseng, J.-W. Yan Y.-C. Liu , Y.-C. F. Wang. Deep Aggregation Net for Land Cover Classification, <i>IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR workshops)</i> , 2018	
	Y.-C. Liu , W.-C. Chiu, S.-D. Wang, Y.-C. F. Wang. Domain-Adaptive Generative Adversarial Networks for Sketch-to-Photo Inversion, <i>IEEE International Workshop on Machine Learning for Signal Processing (MLSP)</i> , 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