

Yu-Ting (Julia) Chang

Education

University of California, Merced, CA, USA
Master of Science, Electrical Engineering and Computer Science 2018 - 2020
Vision and Learning Lab
Advisor: Ming-Hsuan Yang

National Chiao Tung University, Hsinchu, Taiwan
Bachelor of Science, Electrical and Computer Engineering 2011 - 2015

Research Interests

Computer Vision, Image Processing, Machine Learning
Visual Perception, Image Editing

Publications

Mixup-CAM: Weakly-Supervised Semantic Segmentation via Uncertainty Regularization
Yu-Ting Chang, Qiaosong Wang, Wei-Chih Hung, Robinson Piramuthu, Yi-Hsuan Tsai, Ming-Hsuan Yang
The British Machine Vision Conference (BMVC), 2020

Weakly-Supervised Semantic Segmentation via Sub-category Exploration
Yu-Ting Chang, Qiaosong Wang, Wei-Chih Hung, Robinson Piramuthu, Yi-Hsuan Tsai, Ming-Hsuan Yang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020

Image Hashing via Linear Discriminant Learning
Weixiang Hong, Yu-Ting Chang, Haifang Qin, Wei-Chih Hung, Yi-Hsuan Tsai, Ming-Hsuan Yang
IEEE Winter Conf. on Applications of Computer Vision (WACV), 2020

What Dress Fits Me Best? Fashion Recommendation on the Clothing Style for Personal Body Shape [paper]
Shintami Chusnul Hidayati, Cheng-Chun Hsu, Yu-Ting Chang, Kai-Lung Hua, Jianlong Fu, Wen-Huang Cheng
ACM International Conference on Multimedia (ACM MM), 2018

Fashion World Map: Understanding Cities Through Streetwear Fashion [paper]
Yu-Ting Chang, Wen-Huang Cheng, Kai-Lung Hua, Bo Wu
ACM International Conference on Multimedia (ACM MM), 2017

Fashion Eye: Understanding Streetwear Fashion Style
Yu-Ting Chang, Min-Jhih Huang, Jorga Hu Yu, Cheng-Chun Hsu, Wen-Huang Cheng
ACM Multimedia 2017 China Pre-conference (Invited Demonstration), 2017

Research Experience

Machine Learning Intern, Apple Inc., CA, USA
June '20 - present

Research Intern, eBay Inc., CA, USA*Mentor : Dr. Robinson Piramuthu and Dr. Qiaosong Wang**Feb '19 - Apr '20***Weakly-Supervised Semantic Segmentation***Feb '19 - Apr '20*

- Improving the class activation maps (CAM) for weakly-supervised semantic segmentation

Master Student, Vision and Learning Lab, UC Merced, CA, USA*Advisor : Prof. Ming-Hsuan Yang**Aug '18 - present***Image Hashing***Sep '19 - Dec '19*

- Designing an objective of linear discriminant analysis in deep networks

Learning to Caricature via Disentangled Shape and Style*Sep '18 - Nov '18*

- Introducing an image-to-image translation framework by disentangling the shape and style transforms to achieve photo-to-caricature task

Video Style Transfer*Aug '18 - Dec '18*

- Proposing a two-stage framework for transferring the motion in a style video to a content image on semantic level

Research Assistant, Multimedia Computing Lab, Academia Sinica, Taipei, Taiwan*Advisor : Dr. Wen-Huang Cheng**Apr '16 - June '18***Fashion World Map***May '16 - Dec '16*

- Using street clothing style pictures to discover iconic clothing items of each global major city

What dress fits me best? Fashion Recommendation on the Clothing Style for Personal Body Shape*Jun '17 - Mar '18*

- Proposing a framework for learning the compatibility of clothing styles and body shapes

Additional Skills**Languages:** Mandarin Chinese (native), English (advanced), French(beginning)**Programming:** Python, Bash, C/C++, JavaScript**Toolbox / Software:** PyTorch, Keras, MATLAB, OpenCV, Tensorflow**References**

M.S. Advisor

Ming-Hsuan Yang, Professor, University of California, Merced✉ mhyang@ucmerced.edu

Research Mentor

Robinson Piramuthu, Research Scientist, Amazon✉ robinpir@amazon.com

Research Mentor

Qiaosong Wang, Research Scientist, Amazon✉ qiaosong@udel.edu

Research Mentor

Yi-Hsuan Tsai, Research Scientist, NEC Laboratories America✉ ytsai@nec-labs.com

Research Mentor

Wen-Huang Cheng, Professor, National Chiao Tung University, Taiwan✉ whcheng@nctu.edu.tw