Yu-Ting (Julia) Chang

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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, Deep Learning
Visual Perception, Image Editing

Publications

Mixup-CAM: Weakly-Supervised Semantic Segmentation via Uncertainty Regularization [paper]
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 [paper][code]
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 [paper]
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

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Additional Skills

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

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References

M.S. Advisor	**Ming-Hsuan Yang**, Professor, University of California, Merced ✉ mhyang@ucmerced.edu
Research Mentor	**Robinson Piramuthu**, Principal 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