

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, 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
Handwriting Recognition June '20 - Aug '20
- Design an LSTM-based model to convert the 2D image to 1D handwritten signals

Research Intern, eBay Inc., CA, USA*Mentor : Dr. Robinson Piramuthu and Dr. Qiaosong Wang***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, 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