

# 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*

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## Research Interests

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

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## 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

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## 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*

- Design 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](mailto:mhyang@ucmerced.edu)

Research Mentor

**Robinson Piramuthu**, Research Scientist, eBay Inc.✉ [rpiramuthu@ebay.com](mailto:rpiramuthu@ebay.com)

Research Mentor

**Qiaosong Wang**, Research Scientist, eBay Inc.✉ [qiaowang@ebay.com](mailto:qiaowang@ebay.com)

Research Mentor

**Yi-Hsuan Tsai**, Research Scientist, NEC Laboratories America✉ [ytsai@nec-labs.com](mailto:ytsai@nec-labs.com)

Research Mentor

**Wen-Huang Cheng**, Professor, National Chiao Tung University, Taiwan✉ [whcheng@nctu.edu.tw](mailto:whcheng@nctu.edu.tw)