

# Yu-Ting (Julia) Chang

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**EDUCATION**      **University of California, Merced, CA, USA**  
*Master of Science, Electrical Engineering and Computer Science*      *2018 - present*  
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  
Image/Video generation and synthesis

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**PUBLICATIONS**      **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

**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

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**RESEARCH EXPERIENCE**      **Master Student, Vision and Learning Lab, UC Merced, CA, USA**  
*Advisor : Prof. Ming-Hsuan Yang*      *Aug '18 - present*

**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.  
- Allowing users to select different shape and style types to generate diverse caricatures.  
- The two-stage framework is consisted by a geometric transformation network to shepherd shape exaggeration, and a feed-forward style transfer network for facilitating the photo-to-caricature texture translation.

**Video Style Transfer**      Aug '18 - present  
- Proposing a two-stage framework for transferring the motion in a style video to a content image on semantic level.  
- Considering PatchMatch in a deep feature domain, providing better representations for semantic-level correspondences between style frame and content image.  
- The first stage focuses on discovering a correct motion style, and the second stage aims at warping the motion on the content image.

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

**Fashion World Map: Understanding Cities Through Streetwear Fashion** May '16 - Dec '16

- Using street clothing style pictures to discover iconic clothing items of each global major city.
- Based on convolution neural networks and PCST algorithm to depict the street fashion of a city by automatically discovering fashion items.
- Providing commercial contribution including social understanding and brand intelligence.
- Summarizing the work and published on 2017 ACM Multimedia Conference.

**Fashion World Map Demo System** Jan '17 - Feb '17

- Developing the online demo website with AWS service.
- Published on 2017 China Multimedia Conference (Demo Session).

**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.
- Making use of celebrities style as the knowledge resource to construct a body-style map to model the correlation between clothing styles and body shapes.
- Summarizing the work and published on 2018 ACM Multimedia Conference.

**Fashion Popularity Prediction** Aug '17 - Dec '17

- Considering comprehensive fashion-related components to design a special feature for predicting the popularity of a clothing outfit photo posted on the social media website.
- Applying ResNet and DenseNet to train a robust fashion popularity prediction model.

**Fashion Clothing GAN** Apr '17 - May '17

- Trained a fashion clothing generator by DCGAN, WGAN, and BEGAN. Comparing the results and understanding the implementations.
- Familiarizing myself with Tensorflow and learning to perform embedded results by tensorboard.

**Eminent Electronic Technology Corporation** Jun '16 - Dec '17

- Cooperating with Eminent Electronic Technology to realize the dynamic hand gesture recognition system by convolution neural networks.

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WORK  
EXPERIENCE

**System Engineer, Product Development Dept., Soon-Link Co., Ltd., Taipei, Taiwan**  
*May '15 - Mar '16*

**Gbit/s High-speed Visible Light Ethernet transmission products**

- Participating in Small Business Innovation Research Project funded by Ministry of Economic Affairs, Taiwan.
- Integrating AR-coated gain chip and laser diode to develop high frequency transmission system.

**Customized optical transmission system development**

- Handling the importing business of product materials.
- Developing the customized electro-optical system such as divider, EML laser system.

**Internship, Social Media Dept., EZ Table, Taipei, Taiwan**

*Jan '14 - June '14*

**Social Media Event Planner and Management**

- Analyzing the data collected from the fans page to set the advertisement strategies and to organize monthly online events.
- Managing online advertisements.

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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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