

CURRICULUM VITAE

CHANG, YU-TING

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EDUCATION

National Chiao Tung University (NCTU)

Sep 2011-Jun 2015

Bachelor of Science in Electrical and Computer Engineering

Hsinchu, Taiwan

Specialized Program: Multimedia Signal Processing and Communications
Communications Science and Systems

RESEARCH INTERESTS

Machine Learning, Algorithms, Computer Vision, Multimedia, Data Science

RESEARCH AND WORK EXPERIENCE

Multimedia Computing Lab, Academia Sinica

April 2016 - present

Research Assistant

Fashion World Map: Understanding Cities Through Streetwear Fashion (Jun 2016 - Dec 2016)

- Using a large amount of street clothing style pictures to discover iconic clothing items of each global major city
- Based on convolution neural networks and PCST algorithm
- Providing commercial contribution including social understanding and brand intelligence
- Summarizing the work and published on 2017 ACM Multimedia Conference [[pdf](#)]
- Worked with Institute of Computing Technology, Chinese Academy of Sciences

Fashion World Map Demo system (Jan 2017 - Feb 2017)

- In order to make our research more interesting and useful, I developed the online demo website by AWS service. (Demo website link: <http://fashionworldmap.citi.sinica.edu.tw/>)
- Published on 2017 China Multimedia Conference (Demo Session)

Build Global Street Fashion Dataset (GS Fashion dataset) (May 2016 - June 2016)

- Building an image dataset by crawling the fashion-focused social media website, Lookbook.nu.
- GS Fashion dataset contains 400K local street fashion pictures over 45 global major cities and the associated information of each post including geography information and user provided metadata.

Fashion Popularity Prediction (Aug 2017 - present)

- Considering comprehensive fashion-related components and designing a special feature for predicting the popularity of a clothing outfit photo posted on the social media
- Applying ResNet, DenseNet, FractalNet to train a robust fashion popularity prediction model
- Worked with National Taiwan University of Science and Technology

Fashion Clothing GAN (Mar 2017 - May 2017)

- Trained a fashion clothing generator by DCGAN, WGAN, and BEGAN. Comparing the result and understanding the implementations.
- Familiarizing myself with Tensorflow and learning to perform embedding result by tensor board.

Eminent Electronic Technology Corporation (June 2016 - present)

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

Product Development Department , Soon-Link Co., Ltd.

May 2015 - March 2016

System Engineer

Project: Gbit/s High-speed Visible Light Ethernet transmission products

- Small Business Innovation Research Project funded by Ministry of Economic Affairs, Taiwan
- Integrate AR-Coated Gain Chip or Laser Diode to develop high frequency transmission system

Customized optical transmission system development

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

Jan 2014 - Jun 2014

Social Media Department, EZ Table

Internship

Social Media Event Planner and Management

- Analyzing the data of our fans page to set online ads strategies and plan monthly online events
- Online advertisement management

PUBLICATIONS

[1] **Yu-Ting Chang**, Wen-Huang Cheng, Kai-Lung Hua, and Bo Wu, "Fashion World Map: Understanding Cities Through Streetwear Fashion," The 25th ACM International Conference on Multimedia (MM 2017), 23-27 October, 2017, Mountain View, USA. (EI, acceptance rate =28%)

[2] **Yu-Ting Chang**, Min-Jhih Huang, Jorga Hu Yu, Cheng-Chun Hsu, Kai-Lung Hua, and Wen-Huang Cheng, "Fashion Eye: Understanding Streetwear Fashion Style," ChinaMM2017, Nanjing, China, September 2017. (Invited Demonstration)

EXTRACURRICULAR ACTIVITIES

Speaker, Li-Fi transmission System tutorial 2015

- Give a tutorial talk about Li-Fi transmission System at Taipei Technology and University and Oriental Institute of Technology

Activities Director, NCTU Robot Summer Camp 2013, 2014

- Teaching children how to modify a robot by programming

Activities Director, NCTU ECE Department Student Association 2013-2015

- Organized student activities and events

TECHNICAL SKILLS AND LANGUAGES

Programming Languages: Python, C/C++, MATLAB, JavaScript, UNIX shell script, Assembly

Deep Learning Tools: Keras, TensorFlow

Languages: English (fluent), Chinese (native), French(beginner)