Cheng-Han Lee

Email: steven413d@gmail.com Home Page: steven413d.github.io Mobile: +886-0952-787-470

EDUCATION

National Taiwan University

Master of Computer Science; GPA: 4.03 / 4.30

Taipei, Taiwan Sep. 2016 - Aug. 2018

National Chiao Tung University

Bachelor of Electrical Engineering; CS related GPA: 3.86 / 4.30

Hsinchu, Taiwan Sep. 2012 - June. 2016

Work Experience

SenseTime Ltd.

Shenzhen, China

Research Intern, supervised by Prof. Ping Luo, Dr. Ziwei Liu, and Dr. Ruimao Zhang

Sep 2018 - April 2019

- CelebAMask-HQ [550+ stars, 90+ forks][link]: (1) We present MaskGAN for diverse and interactive face manipulation. (2) We contribute CelebAMask-HQ, a large-scale high-resolution face dataset with mask annotations.
- Switchable Normalization on Generative Adversarial Network: To increase the stability of GAN, we discover the probability of learning to select different normalizers (e.g. layer normalization, instance normalization, and spectral normalization) for different layers of a discriminator by meta-learning.

National Taiwan University

Taipei, Taiwan

Research and Teaching Assistant, supervised by Prof. Winston H. Hsu

Sep 2016 - Aug 2018

- o Research Assistant Communications and Multimedia Lab: Research mainly focuses on deep learning, generative model and low-level vision including super-resolution on facial images and image synthesis.
- Teaching Assistant: Linear Algebra (2017 Fall), Digital System Design and Laboratory (2017 Spring, Outstanding TA Award)), and Seminar Class (2016 Fall).

QNAP Systems

Taipei, Taiwan

Software Engineering Intern, supervised by Mr. Paul Chu

July 2016 - Aug 2016

o Implement an universal cloud client of Slack: Integrate the application of QNAP NAS (Network-Attached Storage), Connect To Cloud Drive, with Slack. Enable users to synchronize files between Slack and QNAP NAS.

Publications & Research Projects

- MaskGAN: Towards Diverse and Interactive Facial Image Manipulation [link] Cheng-Han Lee, Ziwei Liu, Linguun Wu, Ping Luo CVPR-2020
- PIVTONS: Pose Invariant Virtual Try-on Shoes with Conditional Image Completion [link] Chao-Te Chou, Cheng-Han Lee, Kaipeng Zhang, Hu-Cheng Lee, Winston H. Hsu ACCV-2018(Oral)
- Attribute Augmented Convolutional Neural Network for Face Hallucination [link] Cheng-Han Lee, Kaipeng Zhang, Hu-Cheng Lee, Chia-Wen Cheng, Winston H. Hsu CVPRW-2018
- Drone-View Building Identification by Cross-View Visual Learning [link] Chun-Wei Chen, Yin-Hsi Kuo, Tang Lee, Cheng-Han Lee, Winston H. Hsu CVPRW-2018

Selected Projects

- Loss Functions for Face Image Super Resolution with Neural Network: Discuss six combinations of loss function for 8× scales face image super resolution problem (NTU CS MLDS course) [link]
- House Monitor A Real-Time Surveillance Android App: Users can control the angle of a remote camera and see real time video of house on a mobile phone. (NCTU CS embedding system course, be elected as 1^{st} price in final project competion) [link]
- Intelligent Speech Emotion Recognition Android App: Users can record a piece of voice and identify its emotion on a mobile phone. (NCTU EE spacial project course, supervised by Prof. Jen-Tzung Chien) [link]

Programming Skills

- Languages: Python, C/C++, Java, Matlab
- Toolkits: Pytorch, Tensorflow, Caffe, Latex, CUDA, OpenCL, Android SDK
- Platforms: Linux, Vim, Git

Related Courses

- Fundamental Courses: Introduction to Computer and Programming (A, NCTU EE), Advanced Object-Oriented Programming (A-, NCTU EE), Data Structures (A, NCTU CS), Algorithms (A, NCTU EE), Operating System (A+, NCTU EE), Computer Organization (A-, NCTU EE)
- Multimedia and Machine Learning: Computer Vision (A+, NTU CS), Introduction to Digital Speech Processing (A, NTU CS), Music Signal Analysis and Retrieval (A+, NTU CS), Advanced Topics in Multimedia Analysis and Indexing (A+, NTU CS), Machine Learning (A-, NTU EE), Machine Learning and Having It Deep and Structured (A-, NTU EE)
- System: Introduction to Computer Network (A+, NCTU CS), Introduction to Embedded System (A+, NCTU CS), Parellel Programming (A+, NTU CS)

LANGUAGES

• Chinese: Native

• English: TOEFL 85

LEADERSHIP

Student Association of NCTU ECE

Leader of Information and Public Relations Department

NCTU Fundamental Cultural Services Club

Leader of Equipment Section in Summer Camp, Vice Director in Winter Camp

Hsinchu, Taiwan Sep 2014 - Jun 2015

Hsinchu, Taiwan Mar 2013 - Feb 2014

REFERENCES

- Research menter Ziwei Liu: Research Fellow, CUHK, zwliu.hust@gmail.com [link]
- Research menter Ruimao Zhang: Research Fellow, CUHK, zhangruimao@sensetime.com [link]
- Research menter Ping Luo: Assistant Professor, HKU, pluo.lhi@gmail.com [link]
- Master advisor Winston H. Hsu: Professor, NTU (Taiwan), whsu@ntu.edu.tw [link]