

Yung-Sung Chuang

UNDERGRADUATE STUDENT · ELECTRICAL ENGINEERING

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Research interests

Natural language processing, machine and deep learning (with lots of practical experience).

Education

National Taiwan University(NTU)

BACHELOR OF SCIENCE IN ENGINEERING(JUNIOR)

- Department of Electrical Engineering, over all average GPA(up to now): **4.13/4.30**

Taipei, Taiwan

Sep. 2016 - PRESENT

Experience

Intelligent Agent Systems Lab, Academia Sinica

RESEARCH ASSISTANT

- Supervised by Prof. Wen-Lian Hsu, the director of Institute of Information Science, Academia Sinica
- Advanced topic on natural language processing with deep learning.

Taipei, Taiwan

Sep. 2018 - PRESENT

Speech Processing & Machine Learning Lab, NTU

UNDERGRADUATE RESEARCHER

- Supervised by Prof. Hung-yi Lee
- Transfer oral style text to formal style text with **generative adversarial architecture**.

Taipei, Taiwan

Aug. 2018 - PRESENT

Intelligent Agent Systems Lab, Academia Sinica

RESEARCH INTERN

- Supervised by Prof. Wen-Lian Hsu, the director of Institute of Information Science, Academia Sinica
- Improved the system of finding collocation and dependency parsing in natural language sentences with word embedding and deep learning approach

Taipei, Taiwan

Jul. 2018 - Aug. 2018

Selected Honors & Awards

H. Spectrum Demo Day 2018

FIRST PRIZE (OUT OF 21 TEAMS) | [NEWS LINK](#)

- We just presented the same work in NCTS Health Hackathon 2018 — PRO (Patient Relay Optimizer)

Taipei, Taiwan

Jul. 2018

NCTS Health Hackathon 2018

FIRST PRIZE WITH NT\$120,000 (OUT OF 18 TEAMS) | [NEWS LINK](#) | [CERT. LINK](#)

- A hackathon on "Intelligent Hospital" organized by National Center for Theoretical Sciences and Mount Sinai Health System.
- We proposed an improved **system for doctors shifting in hospital** — PRO (Patient Relay Optimizer)

Taipei, Taiwan

Jun. 2018

MakeNTU 2018

BEST TECH AWARD WITH NT\$50,000 & MICROSOFT ENTERPRISE AWARD (OUT OF 50 TEAMS) | [PHOTO LINK 1](#) |

[LINK 2](#)

- A hackathon focus on the combination of hardware and software, organized by NTU
- We made a automatic machine for **coffee beans picking with deep learning** technique for better coffee quality and time saving.

Taipei, Taiwan

Mar. 2018

HackNTU 2017

FIRST PRIZE OF DEPARTMENT OF TRANSPORTATION WITH NT\$50,000 (OUT OF 100+ TEAMS) | [PHOTO LINK](#)

- the largest hackathon in Taiwan, organized by NTU
- We made a **smart bus bell system** for improving the convenience of bus transportation.
- This work also been **exhibited on WCIT2017** (World Congress on Information Technology).

Taipei, Taiwan

Jul. 2017

MakeNTU 2017

SECOND PRIZE OF MEDIATEK ENTERPRISE AWARD WITH NT\$10,000(OUT OF 50 TEAMS) | [CERT. LINK](#)

- We made a automatic machine for lost identification notifying and receiving

Taipei, Taiwan

Mar. 2017

Activities

DIRECTOR OF NTUEE PLUS DEPARTMENT, STUDENT ASSOCIATION OF NTUEE

Jun. 2018 - PRESENT

- Develop a **social media network**, which will link together alumni and undergrad students of NTUEE.
- Host interviews, talks, providing information about the latest technological developments from alumni.
- Pair alumni and undergrads to helping those aspiring to study abroad.

Selected Projects

Chinese Sentences Collocation Analyser | [Github Link](#)

TINY PROJECT AT IIS

Jul. 2018

- An tiny program that can analysis the collocation relations between Chinese words in a sentence.

Multi-Turn Response Selection | [Report Link](#)

COURSE FINAL PROJECT OF "MACHINE LEARNING"

Jan. 2018

- Predict next conversations in TV shows with deep learning approaches.

Functionally Reduced And-Inverter Graph | [Github Link](#)

COURSE FINAL PROJECT OF "DATA STRUCTURE AND PROGRAMMING"

Jan. 2018

- Performing Boolean logic simulations and identify functionally equivalent candidate pairs in the circuit. Reducing the circuit size automatically.

Input Method Auto-Modifier | [Github Link](#)

PERSONAL SIDE PROJECT

Aug. 2017

- An useful program that can modify you input type between Chinese and English automatically according to the words you type in.

Emotion Recognition with OpenCV | [Github Link](#)

COURSE FINAL PROJECT OF "INTRODUCTION TO COMPUTER"

Jun. 2017

- Identify emotions of human faces.

Big Two Game | [Github Link](#)

COURSE FINAL PROJECT OF "COMPUTER PROGRAMMING"

Jan. 2017

- Human-computer game of the big-two game.

Selected Courses

EE1004 **Computer Programming**, 2016 Fall (A+)

EE3011 **Data Structure and Programming**, 2017 Fall (A+)

EE5184 **Machine Learning**, 2018 Spring (A+)

Skills

Languages C++, Python, MATLAB, Shell Scripting

Libraries&Toolkits Tensorflow, PyTorch, Keras

Others \LaTeX , Git, Linux