

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 approches.

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

Computer Programming, 2016 Fall (A+)

Data Structure and Programming, 2017 Fall (A+)

Machine Learning, 2018 Spring (A+)

Skills

Languages C++, Python, MATLAB, Shell Scripting

Libraries&Toolkits Tensorflow, PyTorch, Keras

Others \LaTeX , Git, Linux