

HUNG-TING CHEN

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EDUCATION

B.S. in Electrical Engineering, National Taiwan University

June 2020

Overall GPA: 4.26/ 4.30 (No. 4/177)

AWARDS

- 3 * Academic Excellence Award (top 5% of class in semester)
- Second Prize in NTUEE undergraduate innovation award
- Second Award in Small Data Training for Medical Images contest (held by HTC Taiwan)

INTERNSHIP EXPERIENCES

Institute of Information Science, Academia Sinica

June 2019 - Present

Research Assistant

Advisor: Wei-Yun Ma

- Investigate neural dialog systems and neural language generation
- Submitted a paper to AAAI 2021 regarding a short text conversation model which incorporates information from latent patterns, obtaining 36.42 BLEU-1 score on Weibo Benchmark Dataset
- Construct a template-based data-to-text system and enhance the performance with template-optimization

COURSE PROJECTS

Automatic Text Summarization System

Nov. 2018 - June 2020

- Devised a transformer-based neural model to summarize text
- Added pointer-generator network to enhance ROUGE-1 score by 11%
- Incorporated named entity information to enhance ROUGE-1, -2 score by 5% and 8%

Neural-Based Medical Image Analysis – Disease Detection

Dec. 2018 - Jan. 2019

- Developed a neural model identifying 14 diseases on NIH chest X-Ray dataset
- Led the team, assigned tasks and designed project structure
- Won second award in “Small Data Training for Medical Images contest”

Quantification System of Weight Training Effectiveness

Feb. 2019 - June 2019

- Designed circuits to measure and process EMG (Electromyography) signals
- Wrote python scripts to control Raspberry Pi, which receives signals from EMG circuits and sends the calculated score to smartphones
- Developed an Android appication that receives and displays the calculated score

TEACHING EXPERIENCES

Teaching Assistant for *Signals and Systems*

Feb. 2019 - June 2019

Teaching Assistant for *Deep Learning for Human Language Processing*

Feb. 2020 - June 2020

LEADERSHIP EXPERIENCES

Minister of Activities Department of Composition Club

July 2018 - June 2019

- Assigned works to 12 members, arranged 2 activities and supervised the design of activities

Vice Director of Changhua Area Alumni Association

June 2017 - June 2018

- Organized and coordinated affairs of 6 departments; supervised and assisted in handling 10 events

TECHNICAL STRENGTHS

Programming Languages	C++, Python, Matlab
Machine Learning	PyTorch, Keras
Integrated Circuit Design	Verilog, System Verilog
Languages	Mandarin (Native), English (Fluent, TOEFL iBT: 109)