

HUNG-TING CHEN

☎ (+886)0900782501 ✉ chen87618@gmail.com
🌐 timchen0618.github.io

EDUCATION

B.S. in Electrical Engineering, National Taiwan University

June 2020

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

Relevant Courses

Computer Programming, Data Structure and Programming, Algorithms, Computer Architecture, Operating Systems, Machine Learning, Deep Learning for Computer Vision

AWARDS

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

RESEARCH EXPERIENCES

Institute of Information Science, Academia Sinica

Advisor: Wei-Yun Ma

Research Assistant

July 2020 - Present

- Construct a template-based data-to-text system generating product description with BERT model
- Enhance generation quality of the system via template-optimization

Research Intern

June 2019 - June 2020

- Investigate neural dialog systems and neural language generation
- Constructed a short text conversation model which incorporates information from latent patterns, obtaining 36.42 BLEU-1 score on Weibo Benchmark Dataset
- Work submitted to AAAI 2021

Speech Processing Laboratory, National Taiwan University

Undergraduate Research Assistant | Advisor: Lin-Shan Lee

Sept. 2018 - June 2020

- Implemented a transformer-based neural model with pointer-generator network to summarize text
- Incorporated named entity information into summarization model with modified attention
- Introduced entity-aware embedding to enhance ROUGE-1, -2 score by 5% and 8%

Undergraduate Research Assistant | Advisor: Hung-Yi Lee

Feb. 2020 - June 2020

- Investigated methods of meta-learning and implemented a paper in PyTorch on the topic
- Applied meta-learning methods on cross-accent automatic speech recognition

PAPER PREPRINTS

Predict and Use Latent Patterns for Short-Text Conversation

Hung-Ting Chen, Yu-Chieh Chao, Ta-Hsuan Chao, Wei-Yun Ma

[arxiv.org/abs/2010.13982]

COURSE PROJECTS

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”

Multi-Source Domain Adaptation on DomainNet

May. 2019 - June. 2019

- Modify Adversarial Discriminative Domain Adaptation (ADDA) - FuzzyADDA
- Implemented Maximum Classifier Discrepancy (MCD) method
- Ranked 1st and 2nd place in public and private leaderboards in Kaggle competition

Quantification System of Weight Training Effectiveness

Feb. 2019 - June 2019

- Designed circuits to measure and process EMG (Electromyography) signals
- Used Raspberry Pi to receive signals from EMG circuits and send the calculated score to smartphones
- Developed an Android appication that received and displayed 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 all 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, Tensorflow

Integrated Circuit Design

Verilog, System Verilog

Languages

Mandarin (Native), English (Fluent, TOEFL iBT: 109)