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)

Relevant Courses
Computer Programming, Data Structure and Programming, Algorithms, Computer Architecture, Operating Systems, Introduction to Computer Networks, Machine Learning, Deep Learning for Computer Vision

AWARDS

- 3 * Academic Excellence Award (top 5% in 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

Institue 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
- Investigated neural dialog systems and natural language generation
- Constructed a short text conversation model which incorporates information from latent patterns, obtaining 36.42 BLEU-1 score on Weibo Benchmark Dataset
- Submitted work to AAAI 2021 workshop

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
- 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

· Modified Adversarial Discriminative Domain Adaptation (ADDA) into 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)