

HAN-YUN(HENRY) YEH

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EDUCATION

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|---|-----------------|-----------------------|
| National Chiao Tung University | Hsinchu, Taiwan | Sep. 2016 - June 2019 |
| <ul style="list-style-type: none">• M.S. in Communications Engineering (GPA: 4.02/4.3) | | |
| National Taipei University | Taipei, Taiwan | Sep. 2012 - June 2016 |
| <ul style="list-style-type: none">• B.S. in Communications Engineering (Rank: 1st, GPA: 3.72/4.0) | | |

RESEARCH EXPERIENCE

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| National Chiao Tung University
<i>Graduate Research Assistant</i> | Sep. 2016 - Jan. 2019
<i>Hsinchu, Taiwan</i> |
| <ul style="list-style-type: none">• Master Thesis: "End-to-end Pinyin to Character Language Model using Self-Attention Mechanism"
Experimented sequence labeling (TDNN+BLSTM, joint learning with word boundary prediction) and seq2seq (Transformer) model on Chinese pinyin to character problem. Reduced character error rate to 5.6%.• Dimensional sentiment analysis for Chinese phrases (DSAP) [1]
Achieved mean rank 6.5 among 24 submissions on Chinese phrases' valence and arousal prediction problem using modified word2vec and BLSTM model.• Child Speech Impairment Supporting System *Java
Implemented corpus recording system (for speech impairment child) in the cooperation project with NTU Hospital Hsinchu. Collected and analyzed about 200 children's sample.• Managed information system and work station for research. *Arch Linux Ubuntu... | |
| National Taipei University
<i>Bachelor Research Assistant</i> | Sep. 2012 - June 2016
<i>Taipei, Taiwan</i> |
| <ul style="list-style-type: none">• Senior project: "An Automatic Grade Input System via Voice"
Constructed speech recognition system include voice activity detection and noise canceling (microphone array beamforming) module to enter student's name and score automatically. Obtained 1st prize.• Mandarin prosody generation [2][3]
Investigated the improvement of CRF-based base-phrase chunk feature and punctuation mark feature in Mandarin text-to-speech system. | |

EXPERIENCE

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| IBM, Inc
<i>Application Developer</i> | June 2018 - Oct. 2018
<i>Taipei, Taiwan</i> |
| <ul style="list-style-type: none">• Organized health knowledge and designed decision tree for health information suggestion project.
*Python• Implemented backend processing for website user behavior statistics *Python, PHP, MongoDB, MySQL, AWS | |
| IBM, Inc
<i>Application Developer Intern</i> | Jul. 2017 - Aug. 2017
<i>Taipei, Taiwan</i> |
| <ul style="list-style-type: none">• Implemented AOI algorithm for defect detection *Python | |

HORNORS AND AWARDS

Academic

- **Phi Tau Phi Award** (2016) - The Phi Tau Phi Scholastic Honor Society, Taipei Taiwan
Award for top-ranked student in CE department among all classes
- **Best Paper Award** (2014) - Oriental COCOSDA [2] - Phuket, Thailand
- **Dean's List** (Fall '12, Fall '15) - NTPU CE Dept. - Taipei, Taiwan
- **Scholarship** (2014) - Elytone Electronic CO., LTD. - Taipei, Taiwan

Problem Solving, Contest

- **6th Place** (2017) - IJCNLP Shared Task 2 [1] - Taipei, Taiwan
- **1st Place** (2015) - NTPU CE Senior Project Competition - Taipei, Taiwan
- **Honorable Mention** (2014) - Taiwan National Collegiate Programming Contest - Taipei, Taiwan
- **29th Place** (2014) - ACM ICPC Jarkarta Regional - Jarkarta Indonesia

TEACHING AND ADVISING EXPERIENCE

National Chiao Tung University

Sep. 2016 - Jan. 2019

- Principle of Microcomputer
- Logic Design and Lab

National Taipei University

Sep. 2012 - June 2016

- Physics

OTHER EXPERIENCE

2018 5th Pixnet Hackthon

Aug. 2018

Participant

Taipei, Taiwan

- Developed a device and management website for answering popular dishes using Google AIY Voice Kit and information from text mining on 200,000 Pixnet food blogs.

NTPU CE Student Association

Sep. 2012 - June 2016

Director of Information Management

Taipei, Taiwan

- Managed student information system.

NTPU Communication Engineering Winter Camp

Feb. 2015

Leader of Curriculum-design Section

Taipei, Taiwan

- Designed curriculum including IR remoter DIY, speaker/microphone DIY and PC building of 1st NTPU CE winter camp.

PUBLICATIONS

1. Yen-Hsuan Lee, Han-Yun Yeh, Yih-Ru Wang, and Yuan-Fu Liao. Nctu-ntut at ijcnlp-2017 task 2: Deep phrase embedding using bi-lstms for valence-arousal ratings prediction of chinese phrases. In *Proceedings of the IJCNLP 2017, Shared Tasks*, pages 124–129, 2017
2. Yu-Ping Hung, Han-Yun Yeh, I-Bin Liao, Chen-Ming Pan, and Chen-Yu Chiang. An investigation on linguistic features for mandarin prosody generation. In *2014 17th Oriental Chapter of the International Committee for the Co-ordination and Standardization of Speech Databases and Assessment Techniques (COCOSDA)*, pages 1–5. IEEE, 2014

3. Chen-Yu Chiang, Yu-Ping Hung, Han-Yun Yeh, I-Bin Liao, and Chen-Ming Pan. Punctuation-generation-inspired linguistic features for mandarin prosody generation. *EURASIP Journal on Audio, Speech, and Music Processing*, 2019(1):4, 2019

TECHNICAL STRENGTHS

Computer Languages	Python, C, Java, PHP
Databases	MySQL, PostgreSQL
Frameworks	TensorFlow