

Wen-Bin Han

NLP · ML · FRONTEND

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Education

National Tsing Hua University

M.S. IN COMPUTER SCIENCE · NLP LAB · PROF. JASON S. CHANG

Hsinchu, Taiwan
Sept. 2017 - Present

- GPA 4.3/4.3, TOEIC: 895 (Gold Certificate)
- Researching [Natural Language Processing](#) and [Machine Learning](#)
- Teaching Assistant for NLP course

National Central University

B.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING · IISR LAB · PROF. RICHARD T.H. TSAI

Taoyuan, Taiwan
Sept. 2013 - Jan. 2017

- Overall GPA 4.06/4.3, Major GPA: 4.09/4.3, top 6% rank
- Graduated in 3.5 years with 115% required credits and received twice [Academic Excellence Awards](#)
- [Scholarships](#): Mr. Yin-Sheng San Memorial Award, Mr. Ping-Wen Kuo Memorial Award

Publications

- 2019 **(Under Review) ACL-Demo**, Level-Up: Learning to Improve Proficiency Level of Essays
- 2019 **NAACL-SRW**, Opinion Mining with Deep Contextualized Embeddings
- 2016 **NTCIR-12**, NCU IISR System for NTCIR-12 MobileClick2

Work Experiences

Yahoo! (Oath) Taiwan

SUMMER INTERN

Taipei, Taiwan
July 2018 - Aug. 2018

- Web Search Team, cooperated with 4 engineering & 1 design interns
- Content-based searching system on videos to increase the accessibility
- Implemented [face recognition](#) with OpenCV and face_recognition python package
- Illustrated our idea on Yahoo! Taiwan Sports page by utilizing [chrome extension](#)

Positive Grid

FRONT-END ENGINEER, INTERN

Taipei, Taiwan
Sept. 2016 - Jan. 2017

- Solved Web UI issues, separated components and applied Redux
- Reported progress of tasks in daily scrum and trained to detect problems rapidly
- [Agile and Scrum](#), JavaScript, AngularJS, and CSS from skilled front-end mentors

Selected Projects

Opinion Mining with Deep Contextualized Embeddings

RESEARCH INTERN · PROF. NORIKO KANDO

NII, Japan
Sept. 2018 - Jan. 2019

- Detected opinionated spans with different embedders and Bi-LSTM-CRF architecture
- Applying [BERT](#) as embedder improved significantly than using [Word2Vec](#), [GloVe](#), and [ELMo](#)
- Supported Minpaku museum project on frontend UI using Google Maps API

Grammar Error Correction [link]

INTER-WORD DEPENDENCY-BASED GRAMMAR ERROR CORRECTION SYSTEM

NLP Course
Apr. 2018 - June 2018

- [Detect grammatical error](#) of verbs and suggest possible usages with n-gram examples
- Applied SpaCy parser and grammatical rules to generate patterns of verbs

Sentimental Analysis on Movie Comments [link]

INTERNATIONAL SUMMER RESEARCH PROGRAM · PROF. JULIAN MCAULEY

UC, San Diego
July 2016 - Aug. 2016

- Achieved 60% accuracy in [NLP contest](#) on Kaggle using [Linear Regression](#), stemming and ngram
- Conducted research in English environment and cultivated my independence and toughness

NCU IISR System for NTCIR-12 MobileClick2 [link]

RANKING INFORMATION FOR MOBILE

NTCIR, Japan
Sept. 2015 - Jan. 2016

- MobileClick2: Better information retrieval for mobile user
- Achieved nDCG@3 accuracy of 75% by [pair-wise features](#), TFIDF, SVM, and Word Embedding

Skills

Coding **Python (PyTorch, Flask)**, JavaScript (jQuery, Vue.js), Node.js, HTML, CSS, Java