

# Wen-Bin Han

NLP · ML · FRONTEND

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## Education

### National Tsing Hua University

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

Hsinchu, Taiwan  
Sept. 2017 - Present

- GPA 4.3/4.3, TOEIC: 895
- 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](#)
- Published “NCU IISR System for NTCIR-12 MobileClick2” on NTCIR-12
- [Scholarships](#): Mr. Yin-Sheng San Memorial Award, Mr. Ping-Wen Kuo Memorial Award

## Work Experiences

### Yahoo! (Oath) Taiwan

SUMMER INTERN

Taipei, Taiwan  
July 2018 - Aug. 2018

- Web Search Team, cooperated with 4 engineering interns & 1 design intern
- Videos content-based searching system to increase the accessibility
- Implemented [face recognition](#) via OpenCV and face\_recognition python package
- Utilized [chrome extension](#) to illustrate our idea on Yahoo! Taiwan Sports page

### 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 [link]

RESEARCH INTERN · PROF. NORIKO KANDO

NII, Japan  
Sept. 2018 - Jan. 2019

- Detected opinionated spans on 3 datasets with Bi-LSTM-CRF architecture
- Applied different embedders: [Word2Vec](#), [GloVe](#), [ELMo](#), and [BERT](#)
- Improved almost 20% using BERT as embedder
- Supported Minpaku museum project for frontend UI using Google Maps API

### BoxBox [link]

WEB-BASED ONLINE MULTI-PLAYER GAME

Aug. 2018 - Sep. 2018

- Utilized Node.js and [socket.io](#) to build the server
- Accelerated to render UI via [Pixi.js \(GPU\)](#)

### 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 usage with ngram examples
- Applied SpaCy parser and 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

## Skills

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