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## Education

#### **National Taiwan University**

Taipei, Taiwan

B.S. in Engineering Science and Ocean Engineering

Sep.2016 - Aug.2020

• GPA: 3.86

# Work Experience \_\_\_\_\_

#### Academia Sinica - Chinese Knowledge and Information Processing Laboratory (CKIP)

Taipei, Taiwan

Research Assistant (Full Time)

Aug. 2020 - Present

• Advisor: Prof. Ma, Wei-Yun

• Research Topic: Data-to-Text Generation

## **Cathay Financial Holdings**

Taipei, Taiwan

Data Scientist Intern

Jul. 2019 - Jun. 2020

• Developed a cross-datatype unsupervised representation learning toolkit for tabular data.

#### **National Taiwan University**

Taipei, Taiwan

Research Assistant (Part Time)

Mar. 2020 - Jun. 2020

- Advisor: Prof. Liu, Helen K
- Scraping online job posts and analyzing their relevance against college curriculum

### Teaching Assistant

Sep. 2019 - Jan. 2020

• [EE5184] Machine Learning (2019 Fall)

## **Publications**

[1] Kai-Ling Lo, **Ting-Wei Lu**, Tzu-Teng Weng, I-Hsuan Chen, Yun-Nung Chen, "LION-Net: Lightweight ONtology-independent Networks for Schema-Guided Dialogue State Generation". "in The 8th Dialog System Technology Challenge (DSTC8) in Proceedings of Thirty-Forth AAAI Conference on Artificial Intelligence (AAAI 2020), New York, USA, 2020.

### Research\_

## Machine Intelligence and Understanding Laboratory (Miulab)

National Taiwan University

Advisor: Prof. Yun-Nung (Vivian) Chen

Mar. 2019 - Jun. 2020

• Punchline Generation · Dialogue State Tracking · Chinese Character Embedding

# Competitions \_\_\_\_\_

#### International

2019 The 8th Dialog System Technology Challenge - Schema-Guided Dialogue State Tracking. Ranked 20<sup>th</sup> / 26

DSTC8

2017 Human Protein Atlas Image Classification. Ranked 810<sup>th</sup> / 2169

Kaggle

#### Domestic

Self-Driving Boat In-Class Contest. Ranked 1<sup>th</sup> / 14
KKStream Deep Learning Workshop. Ranked 21<sup>th</sup> / 91
NTU System - App Creativity Contest. Honorable Mention

KKStream NTU

NTU ESOE

# Projects \_\_\_\_\_

## LION-Net: Lightweight ONtology-independent Networks for Schema-Guided Dialogue State Generation

DSTC8

https://github.com/MiuLab/LION-Net

- Developed innovative approaches to multi-domain dialogue state tracking on the Schema-Guided Dialogue dataset.
- · Built a seq2seq dialogue state generator with copy mechanism in which the natural language descriptions of slots are used as the input.

August 8, 2020

### **BERTable: Universal Representation Learning for Tabular Data**

Cathay Holdings

https://github.com/dwaydway/BERTable

- Developed cross-datatype representation learning toolkit for tabular data using transformer-based model.
- Distributed representations of both categorical and numerical data were learned by recovering missing values.

#### **Chinese Sub-Character Embedding**

Miulab

https://github.com/dwaydway/Cangjie2Vec

• Enriching Chinese word embedding with sub-character feature such as Cangjie or Component.

## Skills\_

**Programming** Python · C++ · Java · SQL · Matlab

**Libraries & Toolkits** PyTorch · Selenium · Git · Linux

## Extracurricular Activities \_\_

## **Varsity Baseball Team**

National Taiwan University

· Member of the varsity baseball team in senior high and college.

#### **Tutoring**

Taipei, Taiwan

• Programming · Automatic Control · Math (high school level)

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