□ (+886) 919-316-046 | ≥ tim8733123@gmail.com | 💣 dwaydwaydway.github.io | 🛅 dwaydwaydway

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 Taipei, Taiwan

Research Assistant 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 Taiwan

Research Assistant

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

Mar. 2019 - Jun. 2020

Advisor: Prof. Yun-Nung (Vivian) Chen

Punchline Generation · Dialogue State Tracking · Chinese Character Embedding

Competitions _____

International

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

DSTC8

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

Kaggle

Domestic

2017

Self-Driving Boat In-Class Contest. Ranked 1th / 14
 KKStream Deep Learning Workshop. Ranked 21th / 91

NTU ESOE

KKStream Deep Learning Workshop. Ranked 21th / 91

NTU System - App Creativity Contest. Honorable Mention

NTU

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/dwaydwaydway/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)

AUGUST 8, 2020 2