Ting-Wei **Lu**

MACHINE LEARNING · NATURAL LANGUAGE PROCESSING · SOFTWARE ENGINEERING

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Education

National Taiwan University *Taipei, Taiwan*

B.S. in Engineering Science and Ocean Engineering (ESOE) *Sep.2016 - Aug.2020*

- GPA: 3.86

Work & Teaching Experience

Academia Sinica - Chinese Knowledge and Information Processing Laboratory (CKIP) *Taipei, Taiwan*

Research Assistant (Full Time) *Aug. 2020 - Present*

- Advisor: Prof. Ma, Wei-Yun
- Devised a dynamic content planning schema for Data-to-Text Generation, mimicking the thought process of human. Enhanced BLEU-Score by 4 points and F1-score by 1%

Cathay Financial Holdings *Taipei, Taiwan*

Data Scientist Intern *Jul. 2019 - Jun. 2020*

- Developed a unsupervised representation learning toolkit for tabular data. Boosting the performance of a variety of downstream tasks.
- Toolkit: https://github.com/dwaydwaydway/BERTable

National Taiwan University *Taipei, Taiwan*

Research Assistant (Part Time) *Mar. 2020 - Jun. 2020*

- Advisor: Prof. Liu, Helen K
- Improved & deployed a web-scraping system that can reliably acquire online job-post data with 400% speedup.

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. 2020. Lion-net: Lightweight ontology-independent networks for schema-guided dialogue state generation. In Dialog System Technology Challenge Workshop at AAAI.

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 20th / 26** | *DSTC8* |

Domestic

| 2019 | Self-Navigating Boat In-Class Contest. **Ranked 1th / 14** | *NTU ESOE* |
| 2017 | NTU System - App Creativity Contest. **Honorable Mention** | *NTU* |

Skills

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

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

Extracurricular Activities

Varsity Baseball Team *National Taiwan University*

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

Tutoring *Taipei, Taiwan*

- Programming · Automatic Control · Math