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*
- Competed for DSTC8. Being the only team to outperform the baseline model without pre-trained language model.
- Survey on various topics on NLG such as humor generation and conversational reasoning.

Competitions

2019	The 8th Dialog System Technology Challenge - Schema-Guided Dialogue State Tracking. **Ranked 20th / 26**	*DSTC8*
2019	Self-Navigating Boat In-Class Contest. **Ranked 1th / 14**	*NTU ESOE*
2018	KKStream Deep Learning Workshop. **Ranked 21th / 91**	*Taipei, Taiwan*
2017	NTU System - App Creativity Contest. **Honorable Mention**	*Taipei, Taiwan*

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