

CHANG-SHENG KAO

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RESEARCH INTERESTS

Natural Language Processing with Deep Learning, Causal Analysis

EDUCATION

National Taiwan University

2022/09 - 2024/06 (expected)

Advisor: Prof. Yun-Nung Chen

- Master Program of Artificial Intelligence

National Taiwan University

2018/09 - 2022/06

- Major: Computer Science and Information Engineering

RESEARCH EXPERIENCE

Machine Intelligence and Understanding Lab

2020/09 - Present

Advisor: Prof. Yun-Nung Chen

- Research on Multi-modal Dialogue, Nested Named Entity Recognition, and Curriculum Learning
- Join in Alexa Prize Taskbot Challenge and develop dialogue annotation website

Machine Discovery and Social Network Mining Lab

2021/09 - 2022/07

Advisor: Prof. Shou-De Lin

- Solve real world causal inference problems (coupon delivery) with machine learning techniques
- Research on Invariant Learning for Out of Distribution Generalization problems

WORKING EXPERIENCE

Microsoft

2022/07 - 2023/06

Research and Development Intern

- Develop data analysis tools (ScrapeOne) for Bing Geocoding team
- Enhance the development of speller models for our second-tier and CJK markets through deep learning techniques

Language Technologies Lab

2020/02 - 2020/08

Research Assistant

- Develop a English-learning website for a freshman English course with over **30** students
- Build a real-time English pronunciation feedback system on the website

PUBLICATION

[1] Bo-Wei Huang, Keng-Te Liao, **Chang-Sheng Kao**, and Shou-De Lin, "Environment Diversification with Multi-head Neural Network for Invariant Learning," in 36th Conference on Neural Information Processing Systems (NeurIPS 2022)

SKILL

Language

Chinese (native) | English (fluent)

Programming Language

Python | C/C++ | C# | Linux Shell Script

Framework & Library

PyTorch | Matplotlib | PyGame | NumPy