

PO-NIEN KUNG

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EDUCATION

National Taiwan University

September 2017 - June 2021

Bachelor of Computer Science and Information Engineering

PUBLICATIONS

Efficient Multi-Task Auxiliary Learning: Selecting Auxiliary Data by Feature Similarity

EMNLP 2021

Po-Nien Kung, Yi-Cheng Chen, Sheng-Siang Yin, Tse-Hsuan Yang, Yun-Nung Chen

Zero-Shot Rationalization by Multi-Task Transfer Learning from Question Answering

EMNLP 2020 Findings

Po-Nien Kung, Tse-Hsuan Yang, Yi-Cheng Chen, Sheng-Siang Yin, Yun-Nung Chen

Multi-Task Learning for Situated Multi-Domain End-to-End Dialogue Systems

AAAI 2021 DSTC9 Workshop

Po-Nien Kung, Chung-Cheng Chang, Tse-Hsuan Yang, Hsin-Kai Hsu, Yu-Jia Liou, Yun-Nung Chen

RESEARCH EXPERIENCE

MediaTek Research UK

October 2021 – January 2022

Deep Learning Researcher

- Designed a **retrieval augmented transformer** with a multi-hop end-to-end retrieval system. The work is currently under review at **NAACL 2022**.

National Taiwan University

July 2021 – December 2021

Research Assistant

- Researched the field of **efficient multi-task learning** advised by **Prof. Yun-Nung Chen**. Help giving research advice to undergrad students in **MiuLab**.

Microsoft

March 2021 – July 2021

Research Intern

- Researched the **multi-modal transformer**. Cannot provide more information due to the non-disclosure agreement.

DSTC9-SIMMC Contest

June 2020 – September 2020

Team Leader

- Led a five-person team to develop a **multi-modal dialogue state tracking model** (DSTC9 Track 4). Proposed an end-to-end model using multi-task and multi-domain training. Won the **runner-up(second place)** on the response generation subtask.

OTHER EXPERIENCE

Gridwell

July 2018 – January 2020

Part-Time Software Developer

- Developed three integrated web applications for real-time data management using LAMP as back-end structure and various front-end APIs such as Bootstrap, Google Map, ChartJS, etc, accompanied with MySQL database management.

NTU CSIE NASA Team

July 2018 – January 2021

DNS Team Leader

- Maintained DNS and ESXI servers in the NTU CSIE department.

Web Developer

October 2019 – July 2020

Freelancer

- Poseidon Network website
- Binance 2020 Blockchain Week In Vietnam website
- Binance 2020 Blockchain Virtual Conference website
- Taipei National University of the Arts freshman admission website

SKILLS

Programming Language:	C, Python, PHP, JavaScript
Software:	Web, Android APP
System & Server:	UNIX, DNS server, MySQL, ESXI

AWARDS

- **Principal Award** in National Taiwan University Undergraduate Thesis Award
- **Honorable Mentioned Prize** in NTU CSIE Special Topic Exhibition

SELECTED COURSES

Security and Privacy of Machine Learning - National Taiwan University	<i>1st Semester 2020/2021</i>
Natural Language Processing - National Taiwan University	<i>2nd Semester 2019/2020</i>
Applied Deep Learning - National Taiwan University	<i>2nd Semester 2019/2020</i>
Machine Learning Foundations - National Taiwan University	<i>1st Semester 2018/2019</i>