

PO-NIEN KUNG

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EDUCATION

University of California, Los Angeles

September 2022 - Present

Ph.D. student in Computer Science

– Advisor: Nanyun (Violet) Peng

National Taiwan University

September 2017 - June 2021

Bachelor of Computer Science and Information Engineering

SELECTED PUBLICATIONS

Adaptable Logical Control for Large Language Models

Neurips 2024

Honghua Zhang*, **Po-Nien Kung***, Masahiro Yoshida, Guy Van den Broeck, Nanyun Peng

Improving Event Definition Following For Zero-Shot Event Detection

ACL 2024

Zefan Cai*, **Po-Nien Kung***, Ashima Suvana, Mingyu Derek Ma, Hritik Bansal, Baobao Chang,

P Jeffrey Brantingham, Wei Wang, Nanyun Peng

Active Instruction Tuning: Improving Cross-Task Generalization by Training on Prompt Sensitive Tasks

EMNLP 2023

Po-Nien Kung, Fan Yin, Di Wu, Kai-Wei Chang, Nanyun Peng

Do Models Really Learn to Follow Instructions? An Empirical Study of Instruction Tuning

ACL 2023

Po-Nien Kung, Nanyun Peng

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

Decoupling Task-Solving and Output Formatting in LLM Generation

Preprint

Haikang Deng, **Po-Nien Kung**, Nanyun Peng

LLM-REVal: Can We Trust LLM Reviewers Yet?

Preprint

Rui Li, Jia-Chen Gu, **Po-Nien Kung**, Heming Xia, Junfeng Liu, Xiangwen Kong, Zhifang Sui, Nanyun Peng

STAR: boosting low-resource information extraction by structure-to-text data generation with large language models

AAAI 2024

Mingyu Derek Ma, Xiaoxuan Wang, **Po-Nien Kung**, P Jeffrey Brantingham, Nanyun Peng, Wei Wang

Middag: Where does our news go? investigating information diffusion via community-level information pathways

AAAI 2024

Mingyu Derek Ma, Alexander K Taylor, Nuan Wen, Yanchen Liu, **Po-Nien Kung**, Wenna Qin,

Shicheng Wen, Azure Zhou, Diyi Yang, Xuezhe Ma, Nanyun Peng, Wei Wang

GenEARL: A Training-Free Generative Framework for Multimodal Event Argument Role Labeling

Preprint

Hritik Bansal, **Po-Nien Kung**, P Jeffrey Brantingham, Kai-Wei Chang, Nanyun Peng

RESEARCH EXPERIENCE

Zoom

June 2024 – August 2024

Researcher Intern

- Worked on evaluating task compositionality and the controllability of large language models.

MediaTek Research

October 2021 – January 2022

Researcher Intern

- Worked on a **retrieval augmented transformer** with a multi-hop end-to-end retrieval system. The work has been accepted in the sixth Fact Extraction and VERification Workshop (FEVER) at EACL 2023.

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*

- Work on **multi-modal transformer**.

DSTC9-SIMMC Contest*June 2020 – September 2020**Team Leader*

- 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