

Yen Meng

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Education

University of Edinburgh

PH.D. IN ILCC, SCHOOL OF INFORMATICS

- The Centre for Speech Technology Research. Advised by Prof. *Hao Tang*

Edinburgh, Scotland

Sept 2023 - Present

Nation Taiwan University

M.S. IN COMMUNICATION ENGINEERING, DATA SCIENCE AND SMART NETWORKING GROUP

- Speech Processing and Machine Learning Laboratory. Advised by Prof. *Lin-Shan Lee* and Prof. *Hung-yi Lee*

Taipei, Taiwan

Sept 2021 - Jun 2023

Nation Taiwan University

B.S. IN ELECTRICAL ENGINEERING

- Undergraduate project in Speech Processing and Machine Learning Laboratory. Advised by Prof. *Lin-Shan Lee*

Taipei, Taiwan

Sept 2017 - Jun 2021

Research Experience

Speech Processing and Machine Learning Laboratory

ADVISORS: PROF. *Lin-Shan Lee* & PROF. *Hung-yi Lee*

- Data bias in self-supervised speech models
- Sequence compression for self-supervised speech models

National Taiwan University

2021 - 2023

Frederick Jelinek Memorial Summer Workshop (JSALT, JHU Summer Workshop)

COMPRESSION TEAM & SPEECH-TEXT PRE-TRAINING TEAM

- Work accepted to 2022 SLT
- Presenter at JSALT workshop

Baltimore, MD, U.S.A. (remote)

2022 Summer

Publications & Preprints

PUBLISHED (*equal contribution)

- Hsuan-Jui Chen*, **Yen Meng***, and Hung-yi Lee. "Once-For-All Sequence Compression for Self-Supervised Speech Models". *ICASSP 2023*

- **Yen Meng***, Hsuan-Jui Chen*, Jiatong Shi, Shinji Watanabe, Paola Garcia, Hung-yi Lee, and Hao Tang. "On Compressing Sequences for Self-Supervised Speech Models". *SLT 2022*

- **Yen Meng***, Yi-Hui Chou*, Andy T. Liu, and Hung-yi Lee. "Don't speak too fast: The impact of data bias on self-supervised speech models". *ICASSP 2022*

Awards & Honors

2023 **Fully-funded Informatics Graduate School Ph.D. Scholarship**, University of Edinburgh

2023 **Phi Tau Phi Award**, National Taiwan University

Teaching Experience

Deep Learning for Human Language Processing

TEACHING ASSISTANT

- Guide research projects related to self-supervised speech models

National Taiwan University

Sept 2022 - Present

Machine Learning

TEACHING ASSISTANT

- Design an assignment of phoneme classification

National Taiwan University

2021 Fall & 2022 Fall

Introduction to Digital Speech Processing

TEACHING ASSISTANT

- Responsible for an assignment and preparing examination papers

National Taiwan University

2022 Fall

Work Experience

Speech Processing and Machine Learning Laboratory

COMPUTING RESOURCE & SYSTEM ADMINISTRATOR

- Responsible for Slurm workload management (a compute node cluster with 30+ GPUs)
- Taiwan Computing Cloud (TWCC) resource management

Taipei, Taiwan

Sept 2021 - Feb. 2023

Academic Services

2022 **ISCSLP 2022**, Official Reviewer

2022 **ICASSP 2023**, Official Reviewer

2023 **MLSP 2023**, Official Reviewer

2023 **ICASSP 2024**, Official Reviewer

Skills

Programming

PYTHON, C/C++, HTML/CSS, JAVASCRIPT

Deep Learning Framework

PYTORCH