

Yen Meng

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Education

University of Edinburgh

INCOMING PH.D. CANDIDATE IN ILCC, SCHOOL OF INFORMATICS

Edinburgh, Scotland

Starting from Sept 2023

Nation Taiwan University

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

Taipei, Taiwan

Sept 2021 - Jun 2023

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

Nation Taiwan University

B.S. IN ELECTRICAL ENGINEERING

Taipei, Taiwan

Sept 2017 - Jun 2021

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

Research Experience

Speech Processing and Machine Learning Laboratory

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

National Taiwan University

2021 - Present

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

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

COMPRESSION TEAM & SPEECH-TEXT PRE-TRAINING TEAM

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

2022 Summer

- Work accepted to 2022 SLT
- Presenter at JSALT workshop

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

National Taiwan University

Sept 2022 - Present

- Guide research projects related to self-supervised speech models

Machine Learning

TEACHING ASSISTANT

National Taiwan University

2021 Fall & 2022 Fall

- Design an assignment of phoneme classification

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

Line Taiwan Limited

DATA SCIENTIST INTERN

- Explainable recommendation system
- Entity linking for integrating services across platforms

Taipei, Taiwan

Feb 2021 - Sept 2021

Taiwan Semiconductor Manufacturing Co., Ltd. (TSMC)

SOFTWARE ENGINEER SUMMER INTERN

- Web Service
- Machine Learning for defect analysis

Hsinchu, Taiwan

Jul 2020 - Aug 2021

Other Projects

Adversarial Attack on Voice Cloning

SECURITY AND PRIVACY OF MACHINE LEARNING ADVISED BY PROF. Shang-Tse Chen

- Adding adversarial perturbations on raw audio preventing one's voice to be cloned by personalized TTS systems
- Attack on speaker encoding-based model
- Experiment with vanilla & imperceptible attacks

National Taiwan University

2021 Fall

Academic Services

2022 ISCSLP 2022, Official Reviewer

2022 ICASSP 2023, Official Reviewer

2023 MLSP 2023, Official Reviewer

Skills

Programming

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

Deep Learning Framework

PYTORCH