Yen Meng

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Education_ **University of Edinburgh** Edinburgh, Scotland Starting from Sept 2023 INCOMING PH.D. IN ILCC, SCHOOL OF INFORMATICS **Nation Taiwan University** Taipei, Taiwan M.S. IN COMMUNICATION ENGINEERING, DATA SCIENCE AND SMART NETWORKING GROUP Sept 2021 - Jun 2023 Speech Processing and Machine Learning Laboratory. Advised by Prof. Lin-Shan Lee and Prof. Hung-yi Lee **Nation Taiwan University** Taipei, Taiwan Sept 2017 - Jun 2021 **B.S. IN ELECTRICAL ENGINEERING** • Undergraduate project in Speech Processing and Machine Learning Laboratory. Advised by Prof. Lin-Shan Lee Research Experience _____ **Speech Processing and Machine Learning Laboratory** National Taiwan University ADVISORS: PROF. Lin-Shan Lee & PROF. Hung-yi Lee 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) Baltimore, MD, U.S.A. (remote) COMPRESSION TEAM & SPEECH-TEXT PRE-TRAINING TEAM 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** National Taiwan University **TEACHING ASSISTANT** Sept 2022 - Present

Machine Learning
TEACHING ASSISTANT

• Design an assignment of phoneme classification

• Guide research projects related to self-supervised speech models

National Taiwan University 2021 Fall & 2022 Fall

Introduction to Digital Speech Processing

National Taiwan University **TEACHING ASSISTANT** 2022 Fall

• Responsible for an assignment and preparing examination papers

Work Experience _____

Speech Processing and Machine Learning Laboratory

Taipei, Taiwan

COMPUTING RESOURCE & SYSTEM ADMINISTRATOR

Sept 2021 - Feb. 2023

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

Line Taiwan Limited

Taipei, Taiwan

DATA SCIENTIST INTERN

Feb 2021 - Sept 2021

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

Taiwan Semiconductor Manufacturing Co., Ltd. (TSMC)

Hsinchu, Taiwan Jul 2020 - Aug 2021

SOFTWARE ENGINEER SUMMER INTERN

- Web Service
- Machine Learning for defect analysis

Other Projects _____

National Taiwan University

Adversarial Attack on Voice Cloning

2021 Fall

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

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