

Chin-Lun (Allen) Fu

✉ chinlun1999@gmail.com | 📧 allen0307 | 🌐 chin-lun-fu | 📱 chin-lun-fu

EDUCATION

University of California, Los Angeles (UCLA)

M.S. IN COMPUTER SCIENCE

Los Angeles, CA

Sept. 2023 - Jun. 2025

National Taiwan University (NTU)

B.S. IN ELECTRICAL ENGINEERING

Taipei, Taiwan

Sept. 2017 - Jun. 2022

- Coursework: Deep Learning for Computer Vision, Applied Deep Learning, Numerical Linear Algebra, Machine Learning, Operating Systems, Computer Architecture, Algorithms, Data Structure and Programming, Probability and Statics, Computer Programming

WORK EXPERIENCE

Microsoft

RESEARCH INTERN, VISUAL DOCUMENT INTELLIGENCE TEAM

Taipei, Taiwan

Apr. 2022 - Nov. 2022

- Improved over 5% accuracy rate in cross-lingual transfer learning, especially in low-resource scenario with adding knowledge in Wikipedia.
- Improved over 10% F1-score (macro) in receipt field extraction by further in-domain post-pretraining LayoutXLM.

High Tech Computer Corporation (HTC)

RESEARCH INTERN, ALGORITHMS AND MACHINE LEARNING TEAM

Taipei, Taiwan

Jul. 2020 - Nov. 2020

- Obtained 55% in F1-score for clarifying questions in the ClairQ competition.
- Improved 7% accuracy rate with 27% less time by applying Orthogonal Initiate in Deep Linear Network.

RESEARCH EXPERIENCE

NTU, Speech Processing and Machine Learning Lab

RESEARCH ASSISTANT | ADVISOR: [PROF. HUNG-YI LEE](#)

Taipei, Taiwan

Oct. 2020 - Aug. 2022

- Researched on Parameter-efficient Learning in NLP and Speech (e.g., Adapter and Prompt).
- Used 99.95% less training parameters with at most 0.5% accuracy drop on the GLUE benchmark.

Johns Hopkins University (JHU), JSALT 2022 [\[website\]](#)

TEAM MEMBER | ADVISOR: [PROF. HUNG-YI LEE](#), [SHANG-WEN \(DANIEL\) LI](#)

Baltimore, Maryland (remote)

Jun. 2022 - Aug. 2022

- Applied various parameter-efficient tuning methods in NLP to Speech.
- Achieved over 90% trainable parameters reduction and comparable performance on the SUPERB benchmark.

NTU, Vision and Learning Lab

RESEARCH ASSISTANT | ADVISOR: [PROF. YU-CHIANG \(FRANK\) WANG](#)

Taipei, Taiwan

Jan. 2021 - Dec. 2021

- Researched on domain generalization problems of Face Anti-Spoofing and proposed a state-of-the-art (SOTA) model.
- Improved the Area under the ROC Curve (AUC) from 82.11% to 85.49% under the novel spoof attack detection.

PUBLICATIONS

* indicates equal contribution

- [1] **Chin-Lun Fu***, Zih-Ching Chen*, Yun-Ru Lee, and Hung-yi Lee. "AdapterBias: Parameter-efficient Token-dependent Representation Shift for Adapters in NLP Tasks," Findings of the Association for Computational Linguistics: **NAACL 2022**. [\[paper\]](#) [\[arxiv\]](#) [\[code\]](#)
- [2] **Chin-Lun Fu***, Zih-Ching Chen*, Chih-Ying Liu, Shang-Wen Li, and Hung-yi Lee. "Exploring Efficient-tuning Methods in Self-supervised Speech Models," The 2022 IEEE Spoken Language Technology Workshop: **SLT 2022**. [\[paper\]](#) [\[arxiv\]](#)
- [3] **Chin-Lun Fu***, Zih-Ching Chen*, Lin-Hsi Tsao*, Shang-Fu Chen, and Yu-Chiang (Frank) Wang. "Learning Facial Liveness Representation for Domain Generalized Face Anti-Spoofing," IEEE International Conference on Multimedia and Expo: **ICME 2022**. [\[paper\]](#) [\[arxiv\]](#)

SKILLS

Programming Python, C/C++, HTML/CSS, MATLAB

Libraries & Toolkits PyTorch, TensorFlow, Keras, Git, Linux, LaTeX, OpenCV, Scikit-learn, Cuda