

Hung-Chieh Fang

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Education

National Taiwan University (NTU) Sept 2020 – Present
B.S. in Computer Science and Information Engineering Taipei, Taiwan
Thesis: *“Uprooting Implicit Misalignment in Universal Domain Adaptation by Target-Integrated Representation Learning”*.
• Best Bachelor Thesis in College of Electrical Engineering and Computer Science, NTU, 2024
Advisor: [Prof. Hsuan-Tien Lin](#)

Selected Publications

(* indicates equal contribution)

- [4] **Soft Separation and Distillation: Toward Global Uniformity in Federated Unsupervised Learning**
Hung-Chieh Fang, Hsuan-Tien Lin, Irwin King, and Yifei Zhang
In submission of ICCV, 2025 [PDF]
- [3] **Tackling Dimensional Collapse toward Comprehensive Universal Domain Adaptation**
Hung-Chieh Fang, Po-Yi Lu, and Hsuan-Tien Lin
International Conference on Machine Learning (ICML), 2025 [PDF]
- [2] **Integrating Self-supervised Speech Model with Pseudo Word-level Targets from Visually-grounded Speech Model**
Hung-Chieh Fang*, Nai-Xuan Ye*, Yi-Jen Shih, Puyuan Peng, Hsuan-Fu Wang, Layne Berry, Hung-yi Lee, and David Harwath
Workshop on Self-supervision in Audio, Speech and Beyond, ICASSP 2024 [PDF]
- [1] **Open-Domain Conversational Question Answering with Historical Answers**
Hung-Chieh Fang*, Kuo-Han Hung*, Chao-Wei Huang, and Yun-Nung Chen
Asian Chapter of the Association for Computational Linguistics (ACL), 2022 [PDF]

Research Experience

Intelligent and Interactive Autonomous Systems Group (ILIAD), Stanford University May 2025 – Present
Visiting Student Researcher, advised by [Prof. Dorsa Sadigh](#) Hybrid
• Researching on **dexterous robot learning** (ongoing).

Robot Learning Lab (RLLab), NTU Nov 2024 – Present
Undergraduate Researcher, advised by [Prof. Shao-Hua Sun](#) Taipei, Taiwan
• Researching on **skill-based robot learning from videos** (ongoing).

Machine Intelligence & Social Computing (MISC) Lab, The Chinese University of Hong Kong July 2024 – Jan 2025
Visiting Student, Advisor: [Prof. Irwin King](#), [Dr. Yifei Zhang](#), [Prof. Hsuan-Tien Lin](#) New Territories, Hong Kong
• Researched on **federated unsupervised learning with non-IID data**. [4]

- Identified the bottleneck of limited representation expressiveness in non-IID settings as a lack of inter-client uniformity.
- Proposed soft separation of client embeddings to increase inter-client uniformity and distillation to transfer the projector’s optimization benefits to the encoder representation.

Computational Learning Lab (CLLab), NTU Feb 2023 – Mar 2025
Undergraduate Researcher, Advisor: [Prof. Hsuan-Tien Lin](#) Taipei, Taiwan
• Researched on **universal domain adaptation**. [3]

- Uncovered the dimensional collapse problem in universal domain adaptation.
- Proposed using self-supervised loss to tackle dimensional collapse and improve robustness across scenarios.

Machine Intelligence & Understanding Lab (MiuLab), NTU Mar 2022 - Jan 2023
Undergraduate Researcher, Advisor: [Prof. Yun-Nung \(Vivian\) Chen](#) Taipei, Taiwan

- Researched on **open-domain conversational question answering**. [1]
 - Proposed combining the signal from historical answers with the noise-reduction ability of knowledge distillation to improve information retrieval and question answering.
 - Awarded honorable mention in the 2022 NTU CSIE Undergraduate Research Exhibition.

Teaching Experience

EE5100: Introduction to Generative Artificial Intelligence, NTU <i>Teaching Assistant</i>	<i>Jan 2024 – June 2024</i> <i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> • Designed homework on the <i>interpretability and explainability of large language models</i>. [Link] 	
CSIE5043: Machine Learning, NTU <i>Teaching Assistant</i>	<i>Feb 2023 – June 2023</i> <i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> • Co-designed ML algorithm homework about <i>theory of generalization</i> and a final project about <i>ordinal ranking</i> problems for 250+ students. • Held weekly TA hours to guide students on their assignments. 	

Work Experience

MediaTek Research <i>Machine Learning Intern</i>	<i>Jan 2023 – Mar 2023</i> <i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> • Designed <i>personally identifiable information removal</i> workflows for large language models. • Studied the <i>best-arm identification problem in linear bandits</i>. 	
Cinnamon AI <i>Deep Learning Intern</i>	<i>July 2022 – Aug 2022</i> <i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> • Developed a pipeline for meeting summarization with state-of-the-art deep learning models. 	

Selected Projects

Zero-shot Text Behavior Retrieval [Report] <i>Course Project of “Reinforcement Learning”</i>	<i>Nov 2023 – Jan 2024</i>
<ul style="list-style-type: none"> • Proposed a text-based approach to retrieve task-relevant data from an offline dataset <i>without</i> any expert demonstration for <i>imitation learning</i>. • Enhanced retrieval accuracy and success rate across various simulated environments. 	
Visually-Grounded Self-Supervised Learning for Speech Processing [2] <i>Course Project of “Deep Learning for Human Language Processing”</i>	<i>Sept 2022 – Sept 2023</i> <i>Taipei, Taiwan</i>
<ul style="list-style-type: none"> • Proposed using vision as a surrogate for paired transcripts to enrich the semantic information in self-supervised speech models. • Demonstrated the benefits of joint training with frame-level and word-level units for capturing semantic information. 	

Honors And Awards

Dean’s List Award, NTU CSIE <i>Top 5% of the CSIE department</i>	<i>2024</i>
Principal’s Award, NTU Bachelor’s Thesis Award <i>Top 2 theses among all graduates & the best thesis in the EECS College</i>	<i>2024</i>
Honorable Mention, NTU CSIE Undergraduate Research Award <i>Top 6 research projects in the CSIE Department</i>	<i>2022</i>
Special Award, LINE FRESH Hackathon <i>Top 5 out of 300+ teams</i>	<i>2021</i>