JR-JEN CHEN

Homepage: `Jr-Jen Chen`

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EDUCATION

National Taiwan University (NTU) *June 2025 (expected)*
M.S. in Graduate Institute of Communication Engineering
Advisor: Yu-Chiang Frank Wang
GPA: 4.30/4.30
Related courses: Deep learning for computer vision, Reinforcement learning.

National Taiwan University (NTU) *June 2023*
B.E. in Department of Mechanical Engineering
GPA: 4.08/4.30

RESEARCH INTERESTS

Multi-modal large language models, Vision-language models, Continue learning, Video temporal reasoning, Video moment localization, Diffusion models Customization, Robot learning, Robot manipulation.

PUBLICATIONS

ReXTime: A benchmark suite for reasoning-across-time in videos [1] Nov 2023 - June 2024
Supervisors: Yen-Chun Chen, Yu-Chiang Frank Wang Mircosoft, NTU

· Conference: Under-review of NeurIPS 2024 Datasets and Benchmarks Track
· Authors: **Jr-Jen Chen**, Yu-Chien Liao, Hsi-Che Lin, Yu-Chu Yu, Yen-Chun Chen, Yu-Chiang Frank Wang
· Paper link, Project page, Huggingface dataset, GitHub, Leader-board,

Select and Distill: Selective Dual-Teacher Knowledge Transfer for Continual Learning on Vision-Language Models [2] Dec 2023 - Feb 2024
Supervisors: Yu-Chiang Frank Wang NTU

· Conference: ECCV 2024
· Authors: Yu-Chu Yu, Chi-Pin Huang, **Jr-Jen Chen**, Kai-Po Chang, Yung-Hsuan Lai, Fu-En Yang, Yu-Chiang Frank Wang
· Paper link

TEACHING EXPERIENCE

Teaching Assistant of Deep Learning for Computer Vision 2022 Fall, 2023 Fall
Instructor: Yu-Chiang Frank Wang NTU

· Course link,

EXPERIENCE

Graduate Student Researcher   2022 - Present
Vision and Learning Lab. Supervisors: Yu-Chiang Frank Wang   NTU
· Multi-modal Large Language Models / Video Understanding
· Diffusion Models Personalization
· Continual Learning on Vision-Language Models

Undergraduate Student Researcher   Jun 2022 - Aug 2022
Robot Learning Lab. Supervisors: Shao-Hua Sun   NTU
· Reinforcement Learning
· Robot Manipulation

ADLINK Assistant Engineer   July 2022 - Aug 2022
IoT Solutions and Technology Business Unit-Solution Architect and Technical Support   ADLINK
· Machine Learning / Anomaly Detection.
· Edge Computation.

Undergraduate Student Researcher   Aug 2021 - Jun 2022
Bio-inspired Robotics Lab. Supervisors: Pei-Chun Lin   NTU
· Object Detection / Depth Estimation
· Robot Operation System (ROS).

ACHIEVEMENTS

Dean's List, awarded by National Taiwan University	*Fall 2022*
Dean's List, awarded by National Taiwan University	*Spring 2022*
Dean's List, awarded by National Taiwan University	*Spring 2021*
Certificate of Achievement of MOBILEHEROS 2021, CONNECTIVITY INNOVATION AWARDS, awarded by Bureau of Industry, Ministry of Economic Affairs	*2021*
2nd of NASA 2020, INTERNATIONAL SPACE APP CHALLENGE, awarded by American Institute in Taiwan	*2020*

SKILLS/LANGUAGES/HOBBIES

Programming Languages	Python, C/C++, MATLAB
Machine Learning Tools	Pytorch, Sklearn, Pandas, Numpy
Languages	Chinese, English, Japaneses (JLPT N2)
Hobbies	Robots, animation and movie

REFERENCES

[1] **Chen, Jr-Jen**, Y.-C. Liao, H.-C. Lin, Y.-C. Yu, Y.-C. Chen, and Y.-C. F. Wang, "Rextime: A benchmark suite for reasoning-across-time in videos," *arXiv preprint arXiv:2406.19392*, 2024.

[2] Y.-C. Yu, C.-P. Huang, **Chen, Jr-Jen**, *et al.*, "Select and distill: Selective dual-teacher knowledge transfer for continual learning on vision-language models," in *ECCV*, 2024.