LI-HENG LIN

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EDUCATION	
Stanford University	Stanford, CA, USA
M.S. in Computer Science • Cumulative GPA: 4.01 /4.30	06/2024 (Expected)
 Relevant Courses: Parallel Computing (A+), Deep Multi-Task and Meta Learning Learning, Mining Massive Datasets 	g, Deep Reinforcement
National Taiwan University (NTU)	Taipei City, Taiwan
 B.S. in Computer Science and Information Engineering Cumulative GPA: 4.12/4.30, Major GPA: 4.15/ 4.30, Overall Ranking: 19/ 181 (10) 	01/2022 0.5%)
RESEARCH EXPERIENCE	
Stanford Intelligent and Interactive Autonomous Systems Group	Stanford, CA, USA
 Graduate Research Assistant, Advisor: Prof. Dorsa Sadigh Few-shot Imitation Learning by Retrieving Prior Experiences 	09/2022 - Present
 Retrieved data with similar motion by using optical flow. 	
 Proposed an auxiliary reconstruction loss to encourage diffusion policies better utili Gesture-Informed Robot Assistance [1] 	zing retrieved data.
• Enabled robots to understand human gestures by prompting Large Language Mode	ls.
Conducted a user study of 11 people and achieved 70% higher success rates than bas	seline.
NTU Computational Learning Lab	Taipei City, Taiwan
Undergraduate Research Assistant, Advisors: Prof. Hsuan-Tien Lin, Dr. Chun-Liang Li • Practical Guide for Deep Active Learning (DAL)	06/2020 - 01/2022
• Investigated the effect of several design choices (model initialization, hyper-parame	eters tuning) in DAL.
NTU Cyber-Physical Systems Lab	Taipei City, Taiwan
<i>Undergraduate Research Assistant</i> , Advisors: Prof. Chung-Wei Lin, Prof. Hui-Ru Jiang • Improving Robustness of Graph-based Intelligent Intersection Management System	09/2019 - 01/2022
• Ensured deadlock free by proposing a protection mechanism based on limiting the	number of vehicles.
• Reduced vehicle wait time by 52% on average compared to traditional traffic light sy	vstems.
SELECTED PUBLICATIONS	
[1] Li-Heng Lin , Yuchen Cui, Yilun Hao, Fei Xia, Dorsa Sadigh, "Gesture-Informed Rob dation Models", Conference on Robot Learning (CoRL) 2023	ot Assistance via Foun-
WORK EXPERIENCE	
Google Inc. N	ew Taipei City, Taiwan
Software Engineering Intern, Host: Richard Chang • Braille Image Translator	06/2021 - 09/2021
• Implemented an Android application that translates an image of a braille device into	its corresponding text
PROJECTS	
• C++ Attention: Implemented several ways to compute attention (blocked, fused, flash parallelization using OpenMP.	attention) in C++ with

• Efficient CUDA circles renderer: Implemented CUDA render that parallelizes over pixels and circles and achieved top 15% performace on the leaderboard.

SKILLS

- Programming Languages: Python, C++, CUDA, Java, C
- Python Packages: PyTorch, Jax