

LI-HENG LIN

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EDUCATION

- Stanford University** Stanford, CA, USA
M.S. in Computer Science 06/2024 (Expected)
 - Cumulative GPA: **3.96**/4.30
 - Relevant Courses: Deep Multi-Task and Meta Learning, Principles of Robot Autonomy II, Decision Making under Uncertainty, Deep Reinforcement Learning, Mining Massive Datasets**National Taiwan University (NTU)** Taipei City, Taiwan
B.S. in Computer Science and Information Engineering 01/2022
 - Cumulative GPA: **4.13**/4.30, Major GPA: **4.15**/4.30, Overall Ranking: **19/ 181 (10.5%)**
 - Relevant Courses: Machine Learning, Matrix Algebra and Its Applications

RESEARCH EXPERIENCE

- Stanford Intelligent and Interactive Autonomous Systems Group** Stanford, CA, USA
Graduate Research Assistant, Advisor: Prof. Dorsa Sadigh 09/2022 - Present
 - Gesture-Informed Robot Assistance [1]
 - Enabled robots to understand human gestures by prompting Large Language Models.
 - Implemented the whole robot system using Python and PyTorch that achieved 70% higher success rates than baseline.**NTU Computational Learning Lab** Taipei City, Taiwan
Undergraduate Research Assistant, Advisors: Prof. Hsuan-Tien Lin, Dr. Chun-Liang Li 06/2020 - 01/2022
 - Practical Guide for Deep Active Learning (DAL)
 - Investigated the effect of several design choices (model initialization, loss function, hyper-parameters tuning, warm-starting/ cold-starting) in DAL through carefully designed experiments.**NTU Cyber-Physical Systems Lab** Taipei City, Taiwan
Undergraduate Research Assistant, Advisors: Prof. Chung-Wei Lin, Prof. Hui-Ru Jiang 09/2019 - 01/2022
 - Improving Robustness of Graph-based Intelligent Intersection Management System [2]
 - 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 systems.

SELECTED PUBLICATIONS

- [1] **Li-Heng Lin**, Yuchen Cui, Yilun Hao, Fei Xia, Dorsa Sadigh, "Gesture-Informed Robot Assistance via Foundation Models", Conference on Robot Learning (CoRL) 2023
- [2] **Li-Heng Lin**, Kuan-Chun Wang, Ying-Hua Lee, Kai-En Lin, Chung-Wei Lin, Iris Hui-Ru Jiang, "Deadlock Resolution for Intelligent Intersection Management with Changeable Trajectories", IEEE Intelligent Vehicles Symposium (IV) 2022

WORK EXPERIENCE

- Google Inc.** New Taipei City, Taiwan
Software Engineering Intern, Host: Richard Chang 06/2021 - 09/2021
 - Braille Image Translator
 - Proposed an algorithm to translate an image of a braille device into its corresponding text using computer vision techniques.
 - Empowered people to understand the context of a braille sequence in 5-10 seconds by developing an Android application.

SKILLS

- Programming Languages: Python, Java, C, C++
- Python Packages: PyTorch, Tensorflow, PySpark