# LI-HENG LIN

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## EDUCATION

**Stanford University** 09/2022 - Present

*M.S. in Computer Science*

- Cumulative GPA: **3.96**/4.30
- Selective 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** 09/2017 - 01/2022

*B.S. in Computer Science and Information Engineering*

- Cumulative GPA: **4.13**/4.30, Major GPA: **4.15**/ 4.30, Overall Ranking: **19/ 181 (10.5%)**
- Selective Courses: Machine Learning, Matrix Algebra and Its Applications

## RESEARCH EXPERIENCE

**ILIAD, Stanford** 09/2022 - Present

*Graduate Research Assistant* Advisor: Prof. Dorsa Sadigh

Enabling robots to understand human gestures [1]

- Created prompt for Large Language Models to reason about gestures.
- Implemented the whole system and achieve 70% higher success rates than baseline.

**Computational Learning Lab, NTU** 06/2020 - 01/2022

*Undergraduate Research Assistant* Advisor: Prof. Hsuan-Tien Lin, Dr. Chun-Liang Li

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.

**Cyber-Physical Systems Lab, NTU** 09/2019 - 01/2022

*Undergraduate Research Assistant* Advisor: Prof. Chung-Wei Lin, Prof. Iris Hui-Ru Jiang

Improving Robustness of Graph-based Intelligent Intersection Management System [2]

- Proposed a protection mechanism to guarantee no deadlock by limiting the number of vehicles.
- Reduced vehicle wait time by 52% on average compared to traditional traffic light systems while being deadlock-free.

## 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 Vechiles Symposium (IV) 2022

## WORK EXPERIENCE

**Google Inc.** 06/2021 - 09/2021

*Software Engineering Intern, Android Accessibility Team* Host: Richard Chang

Braille Image Translator

- Developed an Android application to translate an image of a braille device into its corresponding text.
- Empowered people to understand the context of a braille sequence in about 5-10 seconds.

## SKILLS

- Proficient: Python, PyTorch, Java
- Familiar: Tensorflow, PySpark, C, C++