

# Hsiang-Chun Wang

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## Research Interests

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My research is broadly focused on reinforcement learning (RL) and its applications. My prior work was enhancing RL algorithms by drawing insights from breakthroughs in computer vision. Recently, I've been investigating how to leverage the reasoning capabilities of LLM to advance skill learning in agents, prompting my exploration of NLP and its intriguing multimodal connections to vision and robotics.

## Education

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|---------------------|--|
| Sep 2022 - Present  | M.S. in Communications Engineering<br><b>National Taiwan University (NTU)</b><br>Advisors: <a href="#">Prof. Shao-Hua Sun</a>  |
| Sep 2018 - Aug 2022 | B.Eng. in Information Engineering<br><b>Shanghai Jiao Tong University (SJTU)</b><br>Advisor: <a href="#">Prof. Jiaxin Ding</a> |

## Publications

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### [Diffusion Model-Augmented Behavioral Cloning](#)

Hsiang-Chun Wang, Shang-Fu Chen, Ming-Hao Hsu, Chun-Mao Lai, Shao-Hua Sun  
*Frontiers4LCD Workshop at International Conference on Machine Learning (ICML) 2023*

## Experience

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| Apr 2022 - Now      | <b>Master Researcher at NTU, Taiwan.</b><br>Investigated ideas to enhance reinforcement learning algorithms.   |
| Nov 2021 - Jun 2022 | <b>Undergraduate Thesis at SJTU, China.</b><br>Research ideas for identifying actions in tennis matches and develop software to extract essential moments from game footage. |
| Jun 2020 - Sep 2020 | <b>Research Intern at SJTU, China.</b><br>Explored solutions to find embedding vectors in GPS trajectory data.   |
| Sep 2018 - Aug 2019 | <b>Engineering Job at SJTU, China.</b><br>Developed a technique to identify armor plates   |

## Coursework

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|-----------------------------------|----------------------------------|
| Linear Algebra                    | Image Processing and Analysis    |
| Machine Learning                  | Video Coding and Communication   |
| Deep Learning for Computer Vision | Computer Network                 |
| Visual Localization and Sensing   | Reinforcement Learning (ongoing) |

## GPA

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Undergraduate (SJTU): 3.1/4.0

Master (NTU): 3.4/4.0