

EDUCATION	Southeast University , Nanjing, China - <i>Bachelor of Computer Science</i> GPA: 3.85/4.0	09/2020 – 09/2024 Avg. Score: 88.44
	Hong Kong Polytechnic University , Hong Kong, China - <i>International Summer School</i> GPA: 4.0/4.0	07/2021 – 08/2021
Publications	<i>i-Rebalance: Personalized Vehicle Repositioning for Supply Demand Balance</i> H Chen , P Sun, Q Song, W Wang, W Wu, W Zhang, G Gao, Y Lyu	AAAI 2024
	<i>Multi-agent reinforcement learning for fleet management: a survey</i> H Chen , Z Li, X Yao	AIAHPC 2022
RESEARCH EXPERIENCE	Ubicomp Lab , National University of Singapore, Singapore <i>Research Assistant</i> , advised by Brian Lim & Wencan Zhang	08/2023 – Present
	COOLA Lab , Southeast University, China <i>Research Assistant</i> , advised by Yan Lyu & Wanyuan Wang	08/2021 – 08/2023
RESEARCH PROJECTS	Modularized Interpretable MDSS with Visual Programming	08/2023 – Present
	<ul style="list-style-type: none">Worked independently in designing a <u>Visual Programming Toolkit</u> as a RapidMiner extension for physicians to build and train ECG diagnostic model by drag and drop.Combined first order logic with deep neural networks, allowing the system to transform drawn flowcharts into trainable deep learning models.Worked on visualization of ECG signals and diagnostic results to facilitate <u>interpretability</u> and <u>human-machine trust</u>.Extension published on RapidMiner Marketplace.	
	Personalized Vehicle Repositioning for Ride-hailing Platforms	12/2021 – 08/2023
	<ul style="list-style-type: none">Led a team of 3 in designing a reposition algorithm that considers driver preference.Proposed a <u>personalized</u> sequential vehicle reposition framework with dual <u>DRL</u> agents and conducted <u>on-field user study</u> of 106 professional drivers.Customized a vehicle reposition simulator with driver behavior modeling.Published a survey paper of using <u>Multi-Agent Reinforcement Learning</u> in Fleet Management on AIAHPC 2022.Research paper submitted to AAAI 2024, under second phase review.	
	Ear Motion Tracking System for VR Devices	04/2022 – 05/2023
	<ul style="list-style-type: none">Led a team of 3 on detecting ear motion as input to VR devices.Utilized ear motion as a replacement for traditional handles as an input measure to be used in VR to facilitate the people with special needs.Built a prototype using headset and endoscopes. Detected ear motion with Lucas-Kanade optical flow method.Carried out a small group of <u>user study</u> on 15 volunteers.	
HONORS AND AWARDS	Awarded Meritorious Winner of Interdisciplinary Contest in Modeling.	05/2022
	Awarded Tencent Scholarship for being in top 10% students.	11/2021
EXTRA CURRICULAR ACTIVITIES	Osaka University Anniversary Lecture Series in Quantum Information Science	07/2021
	Leadership program Global Case Challenge , Washington State University	05/2021