

JIALU (CAROLINE) LI

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EDUCATION

The Hong Kong University of Science and Technology , Hong Kong	GPA: 4.05/4.3 (Top 1%)
<i>Master of Philosophy</i> in Electronic and Computer Engineering	Sep. 2023 – 2025
• Supervisor: Prof. Ling Shi (<i>IEEE/FYASHK</i>)	
The Chinese University of Hong Kong , Hong Kong	GPA: 3.57/4.0 (Dean's List, Head's List)
<i>Bachelor of Science</i> in Computer Science	Sep. 2017 – 2022
<i>Bachelor of Administration</i> in Integrated Business Administration	Sep. 2017 – 2023
<i>Minor</i> in Biochemistry	Sep. 2017 – 2023

PROJECTS

UPDATED: JULY 17, 2026

Harness	🔗 ToolBudgetBench	★45	Large-scale tool libraries selection: balancing context cost and success rate
Skills	🔗 investor-panel-skill	★35	Investment research skill: multi-perspective financial analysis
Tt. ★102	🔗 hk-ipo-skill	★12	Investment research skill: Hong Kong IPO analysis skill
Selected	🔗 biopharma-invest-skill	★1	Biopharma news analysis skill
Contri.	🔗 DeepSeek-Tui/CodeWhale	★39.3k	🔗 akshare ★20.8k

SCHOLARSHIPS & HONORS

[I]=INTERNATIONAL, [N]=NATIONAL, [H]=HONG KONG, [U]=UNIVERSITY-WIDE

[I] Champion , International Competition on AI in Education	2025
[U] Research Travel Grant , HKUST, University Grants Committee	2024
[I] Gold Prize , China International College Students Innovation Competition	2024
[I] Workshop Best Poster Award , Workshop on Robot Safety in Times of AI, IEEE IROS	2024
[I] Gold Prize , China International College Students Innovation Competition	2024
[H] First Prize , The 10th Hong Kong University Student Innovation and Entrepreneurship Competition	2024
[U] Postgraduate Scholarship (Full Studentship) , HKUST, ~500,000HKD	2023 – 2025
[I] Champion , MIT Entrepreneurship & FinTech Integrator	2023
[U] Philip Shen Scholarship , CUHK	2022
[U] Departmental Prize Academic Excellence Award , Chung Chi College, CUHK, <i>top 10% college-wide</i>	2022
[I] Best Cross-Border Fintech Solution Prize, Fintech Olympiad	2022
[U] Chung Chi College Outstanding Student Award , Chung Chi College, CUHK	2021
[U] Kunkle & Pommerenke Scholarship , Chung Chi College, CUHK, ~100,000HKD	2020 – 2022
[U] Honor Award , Chung Chi College, CUHK	2019
[U] Beta Gamma Sigma Honor Society , <i>top 10% faculty-wide</i>	2019
[H] Talent Development Scholarship , Hong Kong Government	2018
[N] CUHK Admission Scholarship , <i>3rd-highest provincial Gaokao score, ~300,000HKD</i>	2017–2021

INTERNSHIPS

Uranus Quantitative Investment Research Lab , <i>Data Engineer Intern, Team Lead</i>	May 2022 – Dec. 2022
Clearing & Settlement Department	
• Led a team of 9 to design and develop the clearing system for a HFT fund.	
• Architected a web application for visualizing fund performance and integrated it with trading systems.	
• Built a high-performance database clustering system with Arctic database and Kafka.	

PUBLICATIONS

†: EQUAL CONTRIBUTION. S=IN SUBMISSION, C=CONFERENCE, J=JOURNAL

[C.1]	Yuhong Zhang [†] , Jialu Li[†] , Shilai Yang, Yuchen Xu, Gert Cauwenberghs, Tzzy-Ping Jung. Graph Representations for Reading Comprehension Analysis using Large Language Model and Eye-Tracking
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biomarker. *47th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Copenhagen, Denmark, 2024. Oral Presentation.*

- [C.2] Pengyu Wang[†], **Jialu Li[†]** and Ling Shi. **Reinforcement Learning-based Optimal Stealthy Actuator Attack on Autonomous Vehicles.** *IEEE/RSJ International Conference on Intelligent Robots and Systems Workshop, Abu Dhabi, UAE, 2024. Workshop Best Poster Award.*
- [C.3] Wei Li, Jialu Xia, Yuzhe Ma, **Jialu Li**, Yibo Lin, Bei Yu. **Adaptive Layout Decomposition with Graph Embedding Neural Networks.** *57th ACM/IEEE Design Automation Conference*, pp. 1–6, IEEE, 2020.
- [C.4] Pengyu Wang, Zhaohua Yang, **Jialu Li** and Ling Shi. **Learning-based Detection of GPS Spoofing Attack in Quadrotor UAVs.** *IEEE Industrial Electronics Society Annual Online Conference, Beijing, China, 2024.*
- [J.1] Pengyu Wang, Hin Wang Lin, **Jialu Li**, Jiankun Wang, Ling Shi and Max Q.-H. Meng. **PierGuard: A Planning Framework for Underwater Robotic Inspection of Coastal Piers.** *IEEE Transactions on Automation Science and Engineering*, vol. 22, pp. 15941-15952, 2025.
- [J.2] Pengyu Wang, Zhaohua Yang, Nachuan Yang, Fan Zhang, **Jialu Li**, Zikai Wang, Chaoqun Wang, Jiankun Wang, Max Q.-H. Meng and Ling Shi. **QUADFormer: Learning-based Detection of Cyber Attacks in Quadrotor UAVs.** *IEEE Transactions on Control Systems Technology*, 2025.
- [S.1] Pengyu Wang, **Jialu Li**, Nachuan Yang, Max Q.-H. Meng and Ling Shi. **GhostDrive: Reinforcement Learning-based Stealthy Attack against Autonomous Vehicles.** *IEEE Transactions on Industrial Electronics (Under Review).*

SKILLS AND LANGUAGES

- **ML & AI:** LLM, Pytorch, Tensorflow, scikit-learn, Federated Learning
- **Data Science & Analysis:** Pandas, Numpy, Scipy, Matplotlib, Seaborn
- **Reinforcement Learning:** Algorithms, Sim2Real transfer, environment customization, OpenAI Gym
- **Robotics & Embedded Systems:** ROS (Robot Operating System)
- **Programming Languages:** Python (proficient), R, SQL, MATLAB, C, Java, JavaScript
- **Software Tools:** Docker, Git, HuggingFace, L^AT_EX, Anaconda, VirtualBox
- **Languages:** Mandarin (Native), English (Fluent, TOEFL iBT: 106/120), Cantonese (Conversational)

SUMMER COURSES

Peking University, Summer Course, GPA: 4.0/4.0

China, 2018

Yale University, NEURON Summer Course

the United States, 2024

EXTRACURRICULAR ACTIVITIES

- Student ambassador of HKUST Engineering School
- Startup selected by HKSTP Ideation Funding Program
- Executive Member of HKUST Graduate Students & Alumni Association
- President of CUHK Mainland Photography Association
- Vice president of Chung Chi Mainland Student Association
- Big group leader of the CUHK Orientation Camp
- Student ambassador of CUHK