

Ju Lin

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Education

Imperial College London	2025 – 2026
• MSc in Applied Computational Science and Engineering	
• Student Academic Representative	
• Mentor for Ark Academy Wembley	
The Hong Kong Polytechnic University	2021 – 2025
• BEng (HONS) in Aviation Engineering (ranked 8/55)	

Selected Publications

[Paper] Framework for Low-Cost Indoor Smartphone Camera-based Localization Using Spherical Panorama and BIM	2025
M. J. L. Lee, Ju Lin , G. Zhang, L.-T. Hsu IEEE Sensors Journal. DOI: 10.1109/JSEN.2025.3613996	
[Paper] Exploring the feasibility of automated data standardization using large language models for seamless positioning	2024
M. J. L. Lee, Ju Lin , L.-T. Hsu International Conference on Indoor Positioning and Indoor Navigation (IPIN), 2024. DOI: 10.1109/IPIN62893.2024.10786123.	
[GitHub] Enhancing Positioning Accessibility through Large Language Model-Driven Data Standardization	TBC
M. J. L. Lee, Ju Lin , X. Bai, L.-T. Hsu Submitted to Applied Soft Computing Journal. In Major Revision state.	

Selected Experience

Graduate Research Assistant	Nov 2025 – Present
Department of Earth Science & Engineering, Imperial College London – London, UK	
• Research under Energy Futures Lab; Supervised by Professor Anna Korre.	
• Development and maintenance of the carbon calculator project code base to improve scalability and long-term maintainability.	
• Research on the scientific validity of the calculator and its adaptation to the Imperial College environment.	
CTO & Co-Founder	Jan 2025 – Present
EmoBay Limited (PolyVentures Backed) – Kowloon, Hong Kong	
• Solely architected an end-to-end solution in web (React/NextJS), mobile (Native Swift), database (Neon/Supabase), and server platforms (Vercel/Azure/Cloudflare/GCP), integrating LLM fine-tuning, RAG.	
• Delivered scalable infrastructure for over 740 users and 18,200 messages .	
• Featured in several media outlets, including Forbes, StartUs Insights, TechRound UK, and Ming Pao.	
Research Intern	Dec 2024 – Jan 2025
Intelligent Positioning and Navigation Laboratory, PolyU – Kowloon, Hong Kong	
• Collected and pre-processed raw data from various positioning sensors and drones.	
• Worked closely with the research team to develop and train machine learning models.	
• Analyzed data to identify patterns, trends, and insights.	
• Prepared detailed reports and presentations on findings and project progress.	

Research & Development Intern <i>Ghent University – Ghent, Belgium</i>	Jul 2024 – Aug 2024
<ul style="list-style-type: none"> Interned under Ghent University Research Group Sustainable Thermo-Fluid Energy Systems (STFES); Supervised by Professor Michel De Paepe and Professor Steven lecompte. Worked on an experimental setup called the “two-phase injection compressor”. Experimented on the performance of a compressor based on the conditions of the working fluid at the intake and injection ports. 	
Research Intern <i>LifeSparrow Solutions Limited – New Territories, Hong Kong</i>	Mar 2024 – Aug 2024

<ul style="list-style-type: none"> Assisted in developing AI models for drone imagery. Participated in AR/VR simulations for enhancing AI training processes. Crafted intuitive UI/UX for web interfaces that interact with drone data. Collaborated on diverse projects, gaining a holistic experience across various tech spectrums. 	Mar 2024 – Aug 2024
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Deputy Director, Powertrain Lead & Driver Powertrain Engineer <i>PolyU E-Formula Racing Team – Kowloon, Hong Kong</i>	Jul 2023 – Aug 2024
<ul style="list-style-type: none"> Supervised the development of the 6th generation of racing car. PIC of the 06E racing car’s powertrain system. Participated in the Formula Student 2023 at Silverstone, UK, and Formula Student Electric China 2023 at Hefei, China. 	Sep 2022 – Jul 2023

Selected Projects

Cargo Operation Safety Detection & Alert System <i>POC Project with Airport Authority Hong Kong</i>	Oct 2024 – Dec 2024
An agentic framework, integrating YOLO and LLMs, has been streamlined and installed to automate HKIA’s daily cargo operation safety detection.	
[GitHub] FusionFly: A Scalable Open-Source Framework for AI-Powered Positioning Data Standardization <i>Intelligent Positioning and Navigation Laboratory</i>	Sep 2024 – May 2025
Capstone Project supervised by Prof. Li-Ta Hsu.	
Research and Development of AI-aided GNSS Software Receiver <i>Undergraduate Research and Innovation Scheme</i>	Sep 2022 – Sep 2023
Individual research project supervised by Prof. Li-Ta Hsu, and co-supervised by Dr. Guohao Zhang. Research Grant: HK\$ 30,000 (approx. US\$ 3,861) Scholarship: HK\$ 10,000 (approx. US\$ 1,287)	

Selected Awards

UK AI Agent Hackathon – Finalist	Nov 2025
Imperial College Learning Analytics Hackathon – Winner	Nov 2025
Faculty of Engineering Dean’s Honours List	Sep 2025
Formula Student Electric China 2023 – 3rd Prize	Nov 2023
Undergraduate Research and Innovation Scheme (URIS) Scholarship	Oct 2023
Mathematical Contest in Modeling (MCM) – Successful Participant	Jun 2023
HKSAR Government Scholarship Fund	Apr 2023
Guangdong Geography Olympiad – First Prize	May 2017

Languages

English (Fluent, IELTS Band 8), Cantonese (Native), Mandarin (Native), Teochew (Native)