

# Ju Lin

London | [ju.lin25@imperial.ac.uk](mailto:ju.lin25@imperial.ac.uk) | [julin.org](http://julin.org) | [LinkedIn](#) | [Google Scholar](#) | [GitHub](#)

## Education

<b>Imperial College London</b>	2025 – 2026
<ul style="list-style-type: none"><li>• MSc in Applied Computational Science and Engineering</li><li>• Student Academic Representative</li><li>• Mentor for Ark Academy Wembley</li></ul>	
<b>The Hong Kong Polytechnic University</b>	2021 – 2025
<ul style="list-style-type: none"><li>• BEng (HONS) in Aviation Engineering (ranked 8/55)</li></ul>	

## Selected Publications

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

## Selected Experience

<b>Graduate Research Assistant</b>	Nov 2025 – Present
<i>Department of Earth Science &amp; Engineering, Imperial College London – London, UK</i> <ul style="list-style-type: none"><li>• Research under Energy Futures Lab; Supervised by Professor Anna Korre.</li><li>• Development and maintenance of the carbon calculator project code base to improve scalability and long-term maintainability.</li><li>• Research on the scientific validity of the calculator and its adaptation to the Imperial College environment.</li></ul>	
<b>CTO &amp; Co-Founder</b>	Jan 2025 – Present
<i>EmoBay Limited (PolyVentures Backed) – Kowloon, Hong Kong</i> <ul style="list-style-type: none"><li>• 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.</li><li>• Delivered scalable infrastructure for over <b>740 users and 18,200 messages</b>.</li><li>• Featured in several media outlets, including Forbes, StartUs Insights, TechRound UK, and Ming Pao.</li></ul>	
<b>Research Intern</b>	Dec 2024 – Jan 2025
<i>Intelligent Positioning and Navigation Laboratory, PolyU – Kowloon, Hong Kong</i> <ul style="list-style-type: none"><li>• Collected and pre-processed raw data from various positioning sensors and drones.</li><li>• Worked closely with the research team to develop and train machine learning models.</li><li>• Analyzed data to identify patterns, trends, and insights.</li><li>• Prepared detailed reports and presentations on findings and project progress.</li></ul>	

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

<b>Research Intern</b> <i>LifeSparrow Solutions Limited – New Territories, Hong Kong</i>	Mar 2024 – Aug 2024
<ul style="list-style-type: none"> <li>• Assisted in developing AI models for drone imagery.</li> <li>• Participated in AR/VR simulations for enhancing AI training processes.</li> <li>• Crafted intuitive UI/UX for web interfaces that interact with drone data.</li> <li>• Collaborated on diverse projects, gaining a holistic experience across various tech spectrums.</li> </ul>	

<b>Deputy Director, Powertrain Lead &amp; Driver</b> <b>Powertrain Engineer</b> <i>PolyU E-Formula Racing Team – Kowloon, Hong Kong</i>	Jul 2023 – Aug 2024 Sep 2022 – Jul 2023
<ul style="list-style-type: none"> <li>• Supervised the development of the 6th generation of racing car.</li> <li>• PIC of the 06E racing car’s powertrain system.</li> <li>• Participated in the Formula Student 2023 at Silverstone, UK, and Formula Student Electric China 2023 at Hefei, China.</li> </ul>	

## Selected Projects

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

## Selected Awards

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

## Languages

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