## Jia Hao Liang (Frank)

Columbia University   jl7363@columbia.edu   (689) 317-2311			
EDUCATION			
	COLUMBIA UNIVETSITY, COLUMBIA COLLEGE • Fellowship: Science Research Fellow (Columbia Under	New York, USA	
	• Courses: Honors Math A, Data Structures in Java, Probability Theory		
2018-2025	Pui Ching Middle School Macau	Macau	
	<ul> <li>GPA: 3.97/4.00 UW; Class rank: 1/240; SAT: 1560/1600; IELTS: 8.5/9.0</li> <li>STEM AP: Calculus BC, Physics Mech/E&amp;M, Computer Science A, Statistics</li> </ul>		
Advanced Courses: Mathematics, English, Ch.			
AWARDS AND INT	9		
	INTERNATIONAL MATHEMATICAL OLYMPIAD	Sunshine Coast, Australia	
	<ul> <li>Honorable Mention, Best Performer in Macau team</li> <li>Best Performer in Macau Team Selection Test, IMO, China MO, and China TST</li> </ul>		
Summer 2024	YAU MATHCAMP	Fudan University, Shanghai	
Summer 2027	Best Project Award, Group leader	i udan Oniversity, Shanghai	
	<ul> <li>Won best project award (5 out of 70) for research on the Inverse Galois Problem</li> <li>Selected to present research findings at the concluding Mathcamp colloquium</li> </ul>		
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Summer 2024	INTERNATIONAL OLYMPIAD IN ARTIFICIAL INTELLIGEN	NCE Burgas, Bulgaria	
	<ul> <li>Bronze Medalist, Macau Representative</li> <li>Explored core AI domains, including Machine Learning, Computer Vision, Natural Language Processing, and Large Multimodal Model</li> <li>Applied concepts through hands-on problem sets in Google Colab, deploying and testing a</li> </ul>		
variety of large language models in practical applications			
Spring 2025	Spring 2025 MACHINE LEARNING INTERNSHIP  Researcher (with Prof. Zhang Jian Guo)  Completed coursework on Large Language Models and Transformer architectures  Applied Python and PyTorch to implement and experiment with AI/ML projects		
2023-2025	MACAU BUS PROGRAM Maca	u University of Science & Technology	
	<ul> <li>Developer</li> <li>Developed a mobile application that integrated variables such as real-time bus location, applying AI and algorithmic optimization to compute efficient commuter routes</li> </ul>		
Awarded Third Prize in the Youth AI and Future Media Global Innovation Contes			
2023-2025	2023-2025 MATH MODELING PROJECTS Pui Ching Mic		
	Group Leader, Finalist in IMMC		
		Developed models for biological classification, demand forcasting, and optimization	
<ul> <li>Designed and implemented models using unsupervised learning and theoretical frames</li> <li>Advanced to the final oral defense stage in international competition such as IMMC</li> </ul>			
LEADERSHIP	Advanced to the imai of a defense stage in international	compedition such as hard	
	MATH CLUB	Pui Ching Middle School Macau	
2021-2023	President	Ful Ching Middle School Macau	
	<ul> <li>Instructed ~30 club members, improved club operation, delivered Math talks</li> </ul>		
2022 2025	• Organized Math competitions for Grade 10-12 students		
2025-2025	MATH MODELING CLUB	Pui Ching Middle School Macau	
	President		
	• Lead team to enter several oral defense round of contes		
2023-2025	BRIDGE CONSTRUCTION CLUB	Pui Chino Middle School Macau	

## 2023-2025 Bridge Construction Club

Pui Ching Middle School Macau

## **Chief Designer**

Kept team morale high during adversity, eventually navigating the team towards success Lead team to construct bridge with best weight capacity >100kg in club history

## SKILLS

- Experienced in C++, Java, Python, Webpage Design & LaTeX
- Experienced in Algorithms, AI, Math Modeling, Mathematics & Physics
- Piano, Rubik's Cube, Running, Route Planning, Puzzles
- Influential Transportation Content Creator ("flbjcy" on Bilibili, 20.9k+ views)