

Zhixuan Li (Aaron)

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Education Background

Bachelor: The Chinese University of Hong Kong (First Honor): Mathematics	Sept. 2022 – May 2026
- Coursework: Python and Application (A), Basic Real Analysis (A), Probability and Statistics (A), Econometrics(A), Stochastic Process (A), Financial Management(A), Portfolio Analysis(A-), Optimization(A-) with GPA 3.773. Overseas Exchange: University of California, Berkeley (USA), McMaster University (Canada)	
Master: The Chinese University of Hong Kong: Advanced Science and Data Science	Aug. 2026 – May 2027

Research Experience and Projects

Projects on Ebola Virus Transmission , McMaster University – Ontario, Canada	Sep. 2024 – Dec. 2024
- Assisted the professor in data collection and regression-based modeling, constructing models with 4 to 6 variables. - Applied mathematical methods to calculate Jacobian matrices and analyze the stability of equilibrium. - Conducted R language simulations and contributed to policy recommendations aimed at mitigating the spread of the virus.	
AI-Assisted International Airport Operations Prototype , Vibe Coding Project	Mar. 2026 – Jun. 2024
- Built an AI-assisted prototype for comparing major international airport operations, including flight-status display, terminal navigation logic, passenger-flow touchpoints, and airport service information, using generative AI to accelerate UI iteration and debugging. - Designed the product around real aviation use cases such as international transfer planning, departure/arrival information lookup, service-facility search, and disruption communication, linking airport data presentation with passenger experience improvement. - Used the project to explore how airline IT systems can support cross-border travel journeys, clearer operational communication, and better coordination between airlines, airports, and passengers, reflecting strong motivation for aviation-focused digital transformation.	

Internship

Hong Kong Applied Science And Technology Research Institute	Hong Kong, SAR
IOT Sensing & AI Technologies	June 2025 – Aug. 2025
Optical Path Simulation and Validation: Developed a Python-based optical path tracing simulation for complex optical systems, systematically modeling scenarios and rigorously validating simulation results through physical principles and mathematical derivations. CVAE-Based Deep Learning Framework for Phase Retrieval: Led the development of an end-to-end deep learning framework based on Conditional Variational Autoencoders (CVAE) to address the inefficiency of the mentor’s original workflow, which relied on manual computation to generate training data prior to model training. The proposed approach automated phase feature learning and generation, significantly improving training efficiency, model robustness, and reconstruction performance.	
Shenzhen Baoan International Airport	Shenzhen, China
Terminal Area Management Department	Jan. 2026 – Mar. 2026
- Analyzed terminal operational data including passenger flow, gate usage, and check-in counter allocation to support resource arrangement decisions across airlines and passenger, ensuring better alignment between demand patterns and terminal capacity - Conducted data cleaning, integration, and exploratory data analysis using Python to study passenger volume distribution, identifying congestion patterns and peak-hour pressure points that impact airline operations and passenger service efficiency - Assisted in evaluating the efficiency of resource allocation (gates, counters, and staffing) based on both historical and real-time data, and communicated insights through data visualizations and structured summary reports to support terminal optimization	
Ries Consulting (Shanghai)	Shanghai, China
Strategy Consulting Intern	Apr. 2026 – Aug. 2026
- Led the research foundation for early-stage consumer and category strategy work by independently organizing survey logic, interview notes, e-commerce listings, social media discussions, competitor materials, and industry reports into usable pain-point summaries, category maps, and comparison tables that became the team’s core analytical base. - Built a semi-automated AI-assisted workflow for brand-popularity regression exploration, using structured prompts to guide AI tools in data cleaning, variable definition, reusable code generation, and relationship testing between brand heat and factors such as consumer discussion volume, product features, pricing signals, and platform exposure, significantly reducing repetitive analysis time. - Converted research findings and AI-generated outputs into consultant-ready deliverables, including product concept directions, use-case angles, positioning rationales, slide outlines, and concise recommendations, helping the team move faster from raw information to client-facing strategy proposals.	

Technologies

Languages: Fluent in Cantonese, English, Korean, and Mandarin , with overseas study and cross-cultural living experience.	
Computer Skills:	
Technical Skills: Python, R, MATLAB, STATA; generative AI for rapid prototyping, debugging, research synthesis, and aviation-related product exploration Business & Management Fit: Consumer research, market analysis, operational data exposure, structured problem solving, cross-functional coordination awareness, and cross-cultural communication Productivity & Documentation: Microsoft Office, L^AT_EX, structured report drafting, presentation decks, and bilingual research communication	