

# Bong Jia Lok (Alvin)



## EDUCATION

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2023 - present	BSc. (Mathematics) at <b>Universiti Brunei Darussalam</b>	(cGPA: 4.8/5.0)
2022	GCE A'Level	(3A*)
2020	GCE O'Level	(9A*)

## PROJECTS

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### **Understanding Brunei's Climate Through Air Temperature Data (Ongoing)** 2025

- Retrieve and analyse data from NASA POWER API using R programming
- Time series analysis (trend, spectrum, cross correlation) on periodicity of temperature anomalies and relationship with ENSO.

### **Spatial Autocorrelation of Schools Across Brunei Darussalam** 2024

- Data collection, cleaning & analysis on school and education datasets using R programming
- Project datasets contributed to the `{bruneimap}` package in R
- Applied statistical methods (spatial-autocorrelation) to visualise spatial patterns & clusters of schools
- Analyzed the relationship between school count and population using linear regression

### **Effects of Phones on Quality of F2F Communciation** 2024

- Conducted primary research, including literature review, survey design, and data collection
- Performed data analysis and created visualizations using Power BI
- Executed hypothesis testing in MS Excel to enhance statistical rigor

### **Tsinghua Global Summer School (GSS)** 2021

- Worked collaboratively with a diverse international team to develop and pitch project ideas on the theme “Future Trends and Development Models in Quality Education”

## EXPERIENCE

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### **Brunei R User Group** 2025 - present

- Speaker for [2025 Mapping Brunei R Meetup \(Slides\)](#)
- Manage event logistics, including venue coordination, participant support, and on-site arrangements for community meetups

### **Private Tutor** 2022 - present

- Provided small group tutoring in Cambridge O'Level Mathematics & Additional Mathematics, improving students' understanding and academic performance

### **Finance Clerk - NBT Brunei (Inchcape)** Sep 2022 - July 2023

- Led the implementation of Power BI for analysing financial data, including expenditure tracking, credit note evaluations, and customer relationship insights
- Conducted tax analysis to ensure full compliance with local regulatory requirements

# SKILLS

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Proficient: MS Excel, Power BI, L<sup>A</sup>T<sub>E</sub>X, Quarto, R, Python (Basics)  
Languages: English, Mandarin, Malay

# AWARDS

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UBD University Book Prize (Level 1000s)	2024
Tsinghua Global Summer School - Social Innovation Team	2021
Top 10 in the World in Additional Mathematics (GCE O'Level)	2020

# RESEARCH INTEREST

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I am eager to contribute to projects that applies mathematical and statistical methods in solving global challenges. Currently, my interests are in **Statistical Data Analysis (Spatial, Climate & Education)**.

# RELEVANT COURSEWORK

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| <ul style="list-style-type: none"><li>• Math Methods for the Sciences I, II</li><li>• Discrete Mathematics</li><li>• Numerical Analysis</li><li>• Ordinary Differential Equations</li><li>• Linear Algebra</li></ul> | <ul style="list-style-type: none"><li>• Multivariate Calculus</li><li>• Complex Analysis</li><li>• Software for Mathematicians</li><li>• Intermediate Statistics</li><li>• Intro to Abstract Algebra &amp; Number Theory</li></ul> |
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# EXTRA-CURRICULAR ACTIVITIES

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<b>Table Tennis Club, UBD</b>	
Chancellor Cup (Inter-university games) Table Tennis Doubles Champion	2025
Vice-Chair	July 2024 - present
– Collaborate closely with the Chair in strategic planning and execution of club's vision by coordinating events and supporting members	
Vice-Secretary	2024
– Managed administrative operations including organizing meetings, documenting minutes, proposal renewals, handling correspondence	
<b>Former National Team Swimmer</b>	2018 - 2020
– Represented Brunei in ASEAN School Games (ASG) 2018 & 2019	
– Participated actively in international, regional and local competitions	
<b>Chinese Orchestra Instrument (Yang Qin)</b>	Grade 10