

Bong Jia Lok (Alvin)



EDUCATION

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

PROJECTS

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 <i>{bruneimap}</i> 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

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

Proficient: MS Excel, Power BI, L^AT_EX, Quarto, R, Python (Basics)
Languages: English, Mandarin, Malay

AWARDS

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

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

- Math Methods for the Sciences I, II
- Discrete Mathematics
- Numerical Analysis
- Ordinary Differential Equations
- Linear Algebra
- Multivariate Calculus
- Complex Analysis
- Software for Mathematicians
- Intermediate Statistics
- Intro to Abstract Algebra & Number Theory

EXTRA-CURRICULAR ACTIVITIES

Table Tennis Club, UBD

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

Former National Team Swimmer

2018 - 2020

- Represented Brunei in ASEAN School Games (ASG) 2018 & 2019
- Participated actively in international, regional and local competitions

Chinese Orchestra Instrument (Yang Qin)

Grade 10