

Bong Jia Lok (Alvin)



EDUCATION

2023 - present	BSc. (Mathematics) at Universiti Brunei Darussalam	(cGPA: 4.82/5.0)
2022	GCE A'Level	(3A*)
2020	GCE O'Level	(9A*)

PROJECTS

Climate Data Analysis for Brunei 2025

- Retrieve and analyse data from NASA POWER API using R programming

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

Brunei R User Group 2025 - present

- Speaker for [2025 Mapping Brunei R Meetup \(Slides\)](#)
- Managed 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 Word, Excel, Powerpoint, Power BI, L ^A T _E X, R, Quarto
Somewhat familiar:	MATLAB, Python
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 **Linear Algebra, Statistical Data Analysis, and Education**.

RELEVANT COURSEWORK

Mathematical Methods for the Sciences (Calculus I, II), Discrete Mathematics, Numerical Analysis, Linear Algebra, Ordinary Differential Equations, Complex Analysis, Software for Mathematicians
Ongoing: Multivariate Calculus, Intermediate Statistics, 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