

Education

National University of Singapore

SINGAPORE

Ph.D. in Operations Research and Analytics

2019 – present

- Fully funded by the NUS Research Scholarship.

University of Auckland

AUCKLAND, NEW ZEALAND

BEng (Hons) majoring in Engineering Science

2016 – 2019

- First Class honours
 - Completed the 4 year degree in 3 years by entering via the Accelerated Pathway an option given to outstanding students
 - Top of Class in STATS 723 (Stochastic Methods in Financial Mathematics) in 2018
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Skills

Programming: Experienced with using Julia, Python, R, C++, C, JavaScript (Node.js, PhaserJS) and MATLAB. Proficient at C#, VBA and Java.

Applications: Experience working with ANSYS Workbench, Excel automation, various CAD packages such as CREO, SOLIDWORKS.

Experience

Vector

AUCKLAND, NEW ZEALAND

Digital Intern

Dec 17 – Mar 18

- Part of team that developed prototype of an educational game to supplement Vectors school campaign concerning electrical safety.
- Worked in an Agile team using the Scrum methodology with daily sprint meetings and weekly reviews.
- Skills learnt – more experience in JavaScript and Python, creation of REST API, web development and Adobe Photoshop/Illustrator.

University of Auckland

AUCKLAND, NEW ZEALAND

Teaching Assistant

Mar 18 – present

- Worked as a marker and lab assistant for various undergraduate level courses in Statistics and Engineering.
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Projects

Rescheduling planes at Auckland Airport

- Created mathematical optimisational model to reschedule planes on the runway to reduce delays. Project backed by [Harmonic Analytics](#).

Algorithmic design for Boolean Matrix decomposition

- A Summer Research Scholarship with the computer science department at the University of Auckland.
- Working on developing new Algorithmic approaches to an open problem in Computer Science regarding the factorisation of Boolean matrices.
- Working with my supervisor, Dr. Joerg Wicker to publish the findings to a research journal.

Predicting NBA Fantasy Team Performance

- Worked on a novel approach to estimate the performance of fantasy NBA teams using machine learning.