

# Lim Wei Xian

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## Education

National University of Singapore

- Bachelor (Honours) in Mathematics

Aug 2015 – May 2019

## Experience

Teaching Assistant for CS1010S (Programming Methodology)

Jan 2017 – May 2017

- Conduct tutorial sessions
- Grade assignments and provide feedback to students

Research Intern at Temasek Laboratories

May 2019 – June 2019

- Apply ring theory and algebraic number theory to the field of post-quantum cryptography
- Analyse and implement new attacks on lattice-based encryption systems

## Skills

Reasonably proficient in Python

Machine Learning / Deep Learning

- Prototype using Python libraries (pandas, scikit-learn, etc)
- Some experience using Keras, PyTorch

## Awards

ASEAN Undergraduate Scholarship

National University of Singapore Faculty of Science Dean's List

- Year 3, Semester 1 & 2

## Relevant Coursework

MA1100 (Fundamental Concepts of Mathematics), MA1101R (Linear Algebra I), MA1102R (Calculus), MA1104 (Multivariable Calculus), MA2101 (Linear Algebra II), MA2108S (Mathematical Analysis I (S)), MA2202S (Algebra I (S)), MA2213 (Numerical Analysis), MA2216 (Probability), MA3110 (Mathematical Analysis II), MA3111 (Complex Analysis I), MA3201 (Algebra II), MA3209 (Mathematical Analysis III), MA3220 (Ordinary Differential Equations), MA3238 (Stochastic Processes I), MA3252 (Linear and Network Optimisation), MA3264 (Mathematical Modelling), MA3265 (Number Theory), MA3269 (Mathematical Finance I), MA4203 (Galois Theory), MA4207 (Mathematical Logic), MA4211 (Functional Analysis), MA4221 (Partial Differential Equations), MA4229 (Approximation Theory), MA4230 (Matrix Computation), MA4254 (Discrete Optimization), MA4261 (Coding and Cryptography), MA4263 (Introduction to Analytic Number Theory), MA4266 (Topology), MA4199 (Honours Project: Modular Functions and Number Theory [Link](#))

CS1010S (Programming Methodology), CS3234 (Logic and Formal Systems)