



## Doungporn (Sam) Wiwatanapataphee



A PhD student in mathematics and statistics at Curtin University, Western Australia. Currently working on how to automate and optimise blockchain applications in energy sector. Highly organised and detail-oriented data scientist with an experience in research. Skilled in using Python and R for data management, visualisation, analysis and prediction using ML/AI. Keen on cloud-based web development and applications.

PhD Student in Maths & Stats  
Data Science Graduate  
Actuarial Science Graduate

Perth, Western Australia  
Bangkok, Thailand

Languages: Thai (Native), English

[dwiwat97@gmail.com](mailto:dwiwat97@gmail.com)  
[18688915@student.curtin.edu.au](mailto:18688915@student.curtin.edu.au)

### \* Skills

Data Mining & Visualisation

95%

Machine Learning

95%

Statistical Analysis

95%

Risk Analysis and Management

90%

Web Development

85%

### ⚙️ Technical

Python, R, MATLAB, LaTeX

95%

HTML, CSS, JavaScript

85%

Unix, Shell, Linux, C/C++

80%

Solidity, SQL

75%

Tableau

70%

## Work Experience

### Sessional Academic / Curtin University

July 2023 - **Current**

Perth, Western Australia

- YSU Economics (Lecturer)
- Financial Engineering (TA - tutorial)
- Foundations of Calculus (TA - workshop)
- Calculus for Engineers (TA - MATLAB)
- Accelerated Mathematics for Engineers (TA - workshop)
- Linear Algebra and Statistics for Engineers (TA - R & MATLAB)
- Introduction to Scientific Data Analysis (TA - Excel & R)
- Introduction to Probability and Data Analysis (TA - R)

### Intern Researcher / Thanachart Insurance PCL

Dec 2018 - Feb 2019

Bangkok, Thailand

- Conducted research on risk analysis and management, customer retention, and renewal rates for motor insurance using advanced statistical methods
- Developed insurance dashboards using Tableau that outline a company's key performance indicators(KPIs), which makes it easier to access, monitor, and get actionable insights

### Research Assistant / Curtin University

Feb - Nov 2018

Perth, Western Australia

- Carried out research on bridge structural analysis, involved solving differential equation using Finite Element method

## Education

### Curtin University

Jan 2022 - **Current**

Doctor of Philosophy - Mathematics and Statistics

### The University of Western Australia

July 2019 - June 2021

Master of Data Science with Distinction

### Curtin University

Feb 2016 - Dec 2018

Bachelor of Science (Actuarial Science)

## Awards & Achievements

Research Training Program (RTP) Scholarship 2022 - Current, Curtin University

SAE Summer Scholarship 2018, Curtin University

Certificate of Completion "Statistical Tools for Risk Modelling" 2018, Actuarial Science, Thammasat University

Certificate of Excellence for Science & Mathematics 2015, Engineers Australia, WA

Actuaries Institute foundation program exemption of CT1 Financial Mathematics; CB1 Business Finance; CS1 Actuarial Statistics; CB2 Business Economics; CM2 Financial Engineering and Loss Reserving