

# LIEW TZE HAO TIMOTHY

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Statistics Lecturer and Data Enthusiast with 2 years of teaching behavioural and data science. Designed a comprehensive research module that combines psychology and data analytics. Leveraged powerful tools such as MS Excel and R to automate complex administrative processes and perform various data analyses such as text analysis of student evaluations.

## PROFESSIONAL EXPERIENCE

OCTOBER 2019 – PRESENT

**LECTURER**, HELP UNIVERSITY, MALAYSIA.

### Key Responsibilities

- **Designing and refining modules** on psychological statistics and research methods at all levels of study.
- **Supervising undergraduate thesis students** and **reviewing proposed research** as part of the institutional review board.

### Key Achievements

- **Devised a comprehensive Data Analytics for Psychology module**, cultivating students' data analytical skills and instructing them on using R and R Studio.
- **Analyzed student evaluations**, wrangling and visualising data to illustrate student sentiment, opinions, and feedback on how to improve courses.
- **Streamlined and consolidated** numerous data compilation tasks using MS Excel macros and formulas, drastically reducing input errors and redundancy, allowing more accurate analysis of student performance across all subjects.
- **Expedited various administrative processes** by leveraging tools such as MS Excel and R Studio to automate exam score extraction and email dissemination.
- **Pioneered new teaching techniques** by creating R Shinyapps and implementing Monte Carlo simulations to illustrate and simplify abstract statistical concepts.
- **Developed detailed workflows** to simplify complex processes, such as organisation of assignment marking and compilation.
- **Coordinated a behavioural intervention** to reduce academic procrastination via nudge theory and choice architecture.
- **Collaborated with fellow researchers** to investigate statistics anxiety in a large-scale, multi-lab study.

AUGUST 2016 – AUGUST 2018

**GRADUATE TUTOR**, HELP UNIVERSITY, MALAYSIA.

### Key Responsibilities

- **Designed and taught classes** on psychological research methods and statistical analyses.
- **Refined various administrative duties**, such as creating an MS Excel Workbook template that allows for efficient and accurate data entry and compilation.

### Key Achievements

- **Coordinated a revamping of research modules** to integrate students' learning in research methods and statistics as a cohesive whole.

## EDUCATION

**OCTOBER 2018**

**MSC IN BEHAVIOURAL AND DATA SCIENCE**, UNIVERSITY OF WARWICK, UNITED KINGDOM.

Grade: Distinction

Date of completion: 30<sup>th</sup> September 2019

**MAY 2013**

**BACHELOR'S DEGREE IN PSYCHOLOGY**, HELP UNIVERSITY, MALAYSIA.

Overall CGPA: 3.73

Classification CGPA: 3.90

Honours: First Class

Date of completion: 30<sup>th</sup> September 2016

**JAN 2012**

**A-LEVELS IN SCIENCE**, INSTITUT SINARAN, MALAYSIA.

Grade: Biology (A), Chemistry (B), Mathematics (D)

Date of completion: 1<sup>st</sup> December 2012

## SKILLS AND EXPERTISE

- Data wrangling, visualisation and analysis
- R and R Studio
- SQLite
- Tableau
- MS Office Tools
- Public speaking and communication

## PORTFOLIO

### PERSONAL BLOG – TIDY TALKS

- I post all sorts of programming and data analysis content, including data visualisations and Monte Carlo simulations, and how I solve problems at my workplace using R.

### **PUBLICATIONS**

- Liew, T., Goodwin, R., & Walasek, L. (2020). Voting patterns, revoking Article 50 and antidepressant trends in England following the Brexit referendum. Social Science and Medicine. <https://doi.org/10.1016/j.socscimed.2020.113025>

## COURSES

**FEBRUARY 2022**

**SQL FOR DATA SCIENCE - COURSERA**

**FEBRUARY 2021**

**DATABASE FUNDAMENTALS (SQL) – HRD CORP E-LATIH**

**JUNE 2020**

**EXCEL/VBA FOR CREATIVE PROBLEM SOLVING, PART 1 - COURSERA**