

# **UBD** Beamer Theme

An unofficial theme for Universiti Brunei Darussalam

### Haziq Jamil

 $\label{eq:mathematical} \mbox{Mathematical Sciences, Faculty of Science, UBD}$ 

https://haziqj.ml

December 9, 2020

# **Overview**

Introduction

**Features** 

Lists

Blocks

Quotes

Columns

Colour scheme

Mathematics

Citations

The UBD Beamer Theme is a modern and minimal theme designed for getting information across in a clean and uncluttered manner.

This theme is based on the Saarland Beamer Theme, with its logos and fonts changed, and colour scheme adapted to UBD's pastel-ised colour scheme.

**Features** 

Lists

Blocks

Quotes

Columns

Colour scheme

Mathematics

Citations

### Slide full of lists

Universiti Brunei Darussalam (UBD; translation University of Brunei Darussalam; Jawi: يونيبرسيتي بروني دارالسلام) is the first university in Brunei.

UBD in figures

• Established: 1985

Medium of instruction: English

• Academic faculties: 9

Research Institutes: 7

• Student enrolment: 3,137 (in 2015, approx.)

History

o 1985: UBD established, first campus in Gadong

o 1995: UBD moved to Tungku Link

o 2009: Introduction of GenNEXT Programme

o 2011: Commencement of the first Discovery Year programme

Credits: https://ubd.edu.bn/ and Wikipedia

## **Blocks**

This is a subtitle

#### Standard Block

This is a standard block using the block environment.

#### Example Block

This is an example block using the exampleblock environment.

#### Alert Block

This is an alert block using the alertblock environment.

# Quotation

Archimedes will be remembered when Aeschylus is forgotten, because languages die and mathematical ideas do not. "Immortality" may be a silly word, but probably a mathematician has the best chance of whatever it may mean.

— G. H. Hardy in A Mathematician's Apology, 1941

#### **Two Columns**

We can also add two columns in the slides.

This is the first column. In this column, we can also add a block for instance.

#### Block

I am a block in a column.

- In this column,
- we just add the
- bullet points.

# **Colour scheme**

Features

Mathematics

Citations

#### **Mathematics**

Let  $X \sim Pois(\lambda)$ . The probability mass function of X is given by

$$\Pr(X = x) = \frac{e^{-\lambda} \lambda^x}{x!}.$$
 (1)

Using the pmf given in (1), we can derive the moment generating function for X to be:

$$M_X(t) = \sum_{k=0}^{\infty} e^{tx} \cdot \frac{e^{-\lambda} \lambda^x}{x!}$$
$$= e^{-\lambda} \sum_{k=0}^{\infty} \frac{(\lambda e^t)^x}{x!}$$
$$= e^{-\lambda} e^{\lambda e^t}$$
$$= \exp{\{\lambda (e^t - 1)\}}.$$

# Theorems et al.

# Definition 1 (Prime numbers)

A prime number is a natural number greater than 1 that is not a product of two smaller natural numbers.

# Theorem 2 (Infinitude of primes)

There are an infinite number of prime numbers.

### Proof.

Suppose that there exist only a finite number of primes,  $p_1, \ldots, p_n$ , say. The number

$$N=1+p_1\cdots p_n$$

is divisible by some prime p. But p cannot be any of  $p_1, \ldots, p_n$ , since the latter all leave remainder 1 on dividing N. This contradicts our assumption that  $p_1, \ldots, p_n$  is the complete list of primes.

# A maths example

Maths examples are continuously numbered (using the example environment).

# Example 3 (Examples of prime numbers)

2, 3, 5, 7 and 11 are examples of prime numbers.

# Example 4 (Examples of non-prime numbers)

Since  $4 = 2 \times 2$ , it is not a prime.

Features

Mathematics

Citations

### **Citations**

The importance of grounding one's self in elementary probability theory and mathematical statistics cannot be overstated. Here are some excellent fundamental textbooks every student of statistics should read: Casella and Berger (2002), Pawitan (2001), and Wasserman (2004).

# Warning

Using fancy tools like neural nets, boosting, and support vector machines without understanding basic statistics is like doing brain surgery before knowing how to use a band-aid (Wasserman, 2004).

The biblatex package is highly suggested. This footnote was created using the custom \blfootnote{} command.

Features

Mathematics

Citations

### **Conclusion**

To use this theme, download the .sty files and image files (for the logo and banner) from https://github.com/haziqj/ubd-beamer.

**End** 

Thank you!













### References I

- Casella, G. and R. L. Berger (2002). Statistical Inference. 2nd ed. Pacific Grove, CA: Duxbury. ISBN: 978-0-534-24312-8.
- Pawitan, Y. (2001). *In All Likelihood*. Statistical Modelling and Inference Using Likelihood. Oxford University Press. ISBN: 978-0-19-850765-9.
- Wasserman, L. (2004). *All of Statistics. A Concise Course in Statistical Inference*. New York: Springer-Verlag. ISBN: 978-0-387-40272-7. DOI: 10.1007/978-0-387-21736-9.