Bayesian Statistics Group Project

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United International College Statistics Year Three

November 24, 2018

Overview

Intro

Bullet Points

- Most engineers are lazy ... and that is often a good thing
  - (*lazy = to do things in the most efficient way*)
- Engineers are terrible story tellers ... they prefer content to form
- Readers are lazy ... need self contained and easy to read material
- LaTeX can help

Motivation

Paragraphs of Text

Sed iaculis dapibus gravida. Morbi sed tortor erat, nec interdum arcu. Sed id lorem lectus. Quisque viverra augue id sem ornare non aliquam nibh tristique. Aenean in ligula nisl. Nulla sed tellus ipsum. Donec vestibulum ligula non lorem vulputate fermentum accumsan neque mollis.

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Model

Verbatim

Example (Theorem Slide Code)

```
\begin{frame}
\frametitle{Theorem}
\begin{theorem}[Mass--energy equivalence]
$E = mc^2$
\end{theorem}
\end{frame}
```

TEX

Department of Decision Sciences and
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The Chinese University of Hong Kong

- TEX was created by Donald Knuth in 1978
- A typesetting macro language and compiler:
  - Readable mathematics
  - Better hyphenation
  - Optimized justification
  - Font management tools
  - Cross-compatibility
- Code – Compile – Visualize

Data and Method

Figure

Figure 1: CUHK Business School

Editors and Compilers

- To install in your machine
  - Check `latex-project.org`
- In the cloud
  - ShareLatex : `www.sharelatex.com`
  - Overleaf : `www.overleaf.com`

Please give me Mb of space on Overleaf

https://www.overleaf.com/signup?ref=d1806010dac8

Multiple Columns

Heading

1. Statement
2. Explanation
3. Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

Conclusion

Table and Equation

Treatments	**Response 1**	**Response 2**
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table 1: Table caption

$$\begin{bmatrix} a_{11} & \cdots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{n1} & \cdots & a_{nn} \end{bmatrix}^T = \begin{bmatrix} a_{11} & \cdots & a_{n1} \\ \vdots & \ddots & \vdots \\ a_{1n} & \cdots & a_{nn} \end{bmatrix} \tag{1}$$

References


John Smith (2012)
Title of the publication
Journal Name 12(3), 45 – 678.

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