MSc Data Science Thesis

My Name 2019

Contents

1.1 Background information 1 1.2 Literature review 1 2 Methods 3 2.1 Important main method 3 2.2 Additional method 3 3 Results 5 3.1 Main results 5 4 Discussion 7 4.1 What I found 7 4.2 What it means 7 5 References 9 Appendix 11	A	ckno	wledgements	ix
2 Methods 3 2.1 Important main method 3 2.2 Additional method 3 3 Results 5 3.1 Main results 5 4 Discussion 7 4.1 What I found 7 4.2 What it means 7 5 References 9 Appendix 11	1	1.1	Background information	1
2.1 Important main method 3 2.2 Additional method 3 3 Results 5 3.1 Main results 5 4 Discussion 7 4.1 What I found 7 4.2 What it means 7 5 References 9 Appendix 11	2			-
3.1 Main results 5 4 Discussion 7 4.1 What I found 7 4.2 What it means 7 5 References 9 Appendix 11	_	2.1	Important main method	3
4.1 What I found	3		- 	_
Appendix 11	4	4.1	What I found	7
	5	Ref	erences	9
		• •		11

List of Tables

	3.1	Parameter	estimates	from	regression	of	mpg	on	weight.						
--	-----	-----------	-----------	------	------------	----	-----	----	---------	--	--	--	--	--	--

List of Figures

3.2	Another example figure.												6
3.1	An example figure												6

Acknowledgements

I would like to thank \dots

Introduction

1.1 Background information

- text 1
- text 2
- text 3
- \bullet more text
- more text

1.2 Literature review

One important development was made by Abrams, Gillies, and Lambert (2005).

Methods

2.1 Important main method

Initial modelling was performed using linear regression as defined in equation (2.1).

$$y_i = \beta_0 + \beta_1 x_i + \varepsilon_i, \ \varepsilon_i \stackrel{iid}{\sim} N(0, \sigma^2)$$
 (2.1)

2.2 Additional method

- \bullet text 6
- text 7

Results

3.1 Main results

And here is an example table of regression coefficients in Table 3.1.

Table 3.1: Parameter estimates from regression of mpg on weight.

	Estimate	95% CI lower limit	95% CI upper limit
(Intercept)	37.29	33.61	40.97
wt	-5.34	-6.44	-4.25

Example text example text.

An example of a figure is shown in Figure 3.1.

```
plot(pressure, pch = 19, type = "b")
```

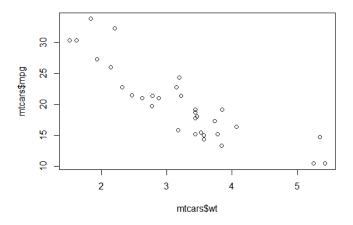


Figure 3.2: Another example figure.

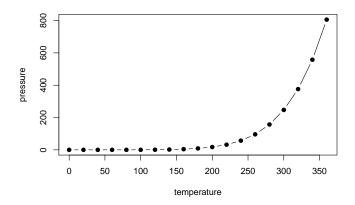


Figure 3.1: An example figure.

And we can include image files directly, such as Figure 3.2.

```
knitr::include_graphics("img/mtcars-scatter.png")
```

To figure code chunks add the chunk option fig.pos="H" to use the LaTeX float package to try and position the figure where the code appears.

Also, this is how to reference a section, e.g. the Introduction was chapter 1 and the Literature Review was section 1.2.

Discussion

4.1 What I found

- text 1
- \bullet text 2
- text 3
- more text
- more text

4.2 What it means

- text 6
- text 7

References

Abrams, K. R., C. L. Gillies, and P. C. Lambert. 2005. "Meta-Analysis of Heterogeneously Reported Trials Assessing Change from Baseline." *Statistics in Medicine* 24: 3823–44.

Appendix

R code

```
model <- lm(y ~ x1 + x2, data = df)
summary(model)</pre>
```