

## University of Southampton Research Repository

Copyright © and Moral Rights for this thesis and, where applicable, any accompanying data are retained by the author and/or other copyright owners. A copy can be downloaded for personal non-commercial research or study, without prior permission or charge. This thesis and the accompanying data cannot be reproduced or quoted extensively from without first obtaining permission in writing from the copyright holder/s. The content of the thesis and accompanying research data (where applicable) must not be changed in any way or sold commercially in any format or medium without the formal permission of the copyright holder/s.

When referring to this thesis and any accompanying data, full bibliographic details must be given, e.g.

Thesis: Author (Year of Submission) "Full thesis title", University of Southampton, name of the University Faculty or School or Department, PhD Thesis, pagination.

Data: Author (Year) Title. URI [dataset]



UNIVERSITY OF SOUTHAMPTON

Faculty of [Insert faculty]  
School of [Insert school]

## An Investigation into ...

DOI: [10.1002/0470841559.ch1](https://doi.org/10.1002/0470841559.ch1)

Volume n of m

*by*

**[Insert full name, for example, Sarah Alison Watson]**

[Insert Previous Qualifications, for example MEng]

ORCID: [0000-0002-1825-0097](https://orcid.org/0000-0002-1825-0097)

*A thesis for the degree of  
Doctor of Philosophy*

September 2020



University of Southampton

Abstract

Faculty of [Insert faculty]

School of [Insert school]

Doctor of Philosophy

**An Investigation into ...**

by [Insert full name, for example, Sarah Alison Watson]

This work is all about ... There are broad instructions for this template entitled: How to use the University of Southampton LaTeX template. There is a technical reference included in the doc folder with the templates.

There is no prescribed font, you should use a font appropriate to your discipline. See Producing your thesis section 7.2.



# Contents

<b>List of Figures</b>	<b>vii</b>
<b>List of Tables</b>	<b>ix</b>
<b>Listings</b>	<b>xi</b>
<b>List of Additional Material</b>	<b>xiii</b>
<b>Declaration of Authorship</b>	<b>xv</b>
<b>Acknowledgements</b>	<b>xvii</b>
<b>Definitions and Abbreviations</b>	<b>xxi</b>
<b>1 Introduction</b>	<b>1</b>
1.1 A Section of a chapter . . . . .	2
1.1.1 Some quotes . . . . .	2
<b>2 Conclusions</b>	<b>5</b>
<b>Appendix A Stuff</b>	<b>7</b>
<b>Glossary [if relevant]</b>	<b>9</b>
<b>References</b>	<b>11</b>
<b>Bibliography</b>	<b>13</b>
<b>Index [if relevant]</b>	<b>15</b>





# List of Figures

1.1	A colourful picture. . . . .	1
1.2	A doubly colourful picture. . . . .	2



# List of Tables

1.1	The Results . . . . .	1
-----	-----------------------	---



# Listings

2.1 Listing of what an example listing would be like . . . . .	6
--	---



# List of Additional Material

Material Name e.g Map

Material Name e.g CD

Test Material





## Declaration of Authorship

I declare that this thesis and the work presented in it is my own and has been generated by me as the result of my own original research.

I confirm that:

1. This work was done wholly or mainly while in candidature for a research degree at this University;
2. Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated;
3. Where I have consulted the published work of others, this is always clearly attributed;
4. Where I have quoted from the work of others, the source is always given. With the exception of such quotations, this thesis is entirely my own work;
5. I have acknowledged all main sources of help;
6. Where the thesis is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself;
7. Parts of this work have been published as: S.R. Gunn. Pdflatex instructions, 2001  
C. J. Lovell. Updated templates, 2011  
S.R. Gunn and C. J. Lovell. Updated templates reference 2, 2011

Signed:.....

Date:.....



## **Acknowledgements**

Thanks to no one.



*To ...*



# Definitions and Abbreviations

- $w$  The weight vector
- § If relevant to discipline





# Chapter 1

## Introduction

You probably found all the files from Longman (2019), they were originally made from Gunn (2001). Template specific instructions can be found at: <https://git.soton.ac.uk/e17g15/uos-latex-template-instructions>.

Table 1.1 illustrates the results of some arbitrary example work.

Training Error	Testing Error
0	$\infty$

TABLE 1.1: The Results

Figure 1.1 shows why this is the case.

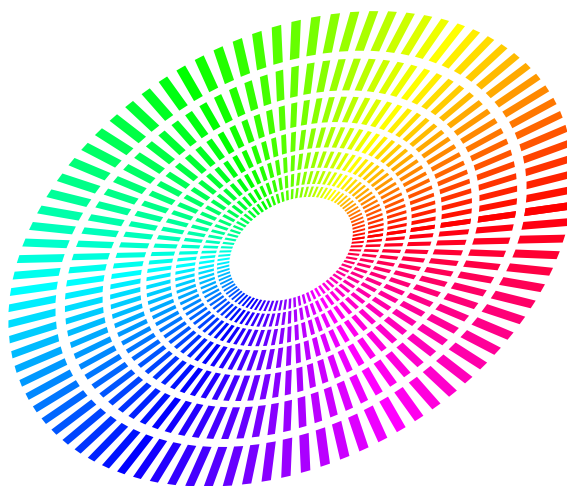


FIGURE 1.1: A colourful picture.

This page shows you a subfigure example in Figure 1.2. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec rutrum sodales ligula, ac aliquam sem interdum at.

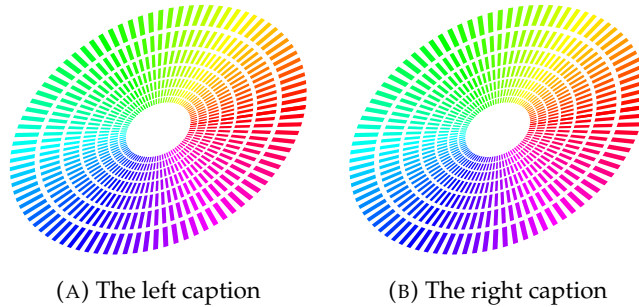


FIGURE 1.2: A doubly colourful picture.

Ut commodo pulvinar ipsum. Aliquam et diam sed nibh tincidunt mollis vitae quis nunc. In vel ante vitae felis semper malesuada sed a metus. Aliquam semper metus vel metus imperdiet, quis mollis nisi volutpat. Integer in convallis erat, et auctor dui. Phasellus id tristique tortor. Mauris ac nisi ut mi pulvinar interdum. Donec quis nibh tempus erat lobortis dapibus non a nunc. Nulla laoreet tempus fringilla. Aliquam pulvinar, sapien eu interdum gravida, libero urna dapibus sem, sodales efficitur lorem nunc et justo. Proin vitae dolor nisl.

## 1.1 A Section of a chapter

Nulla molestie velit sed dui ullamcorper viverra. Fusce placerat vulputate lacus eu consequat. Cras ullamcorper vel mauris quis aliquam. Curabitur non varius elit, eget commodo urna. Phasellus erat libero, faucibus elementum augue eget, malesuada fringilla purus. Quisque pulvinar, lectus sit amet ultricies tristique, eros nunc commodo lacus, nec ultrices risus lorem vitae diam. Cras ac ornare nisi.

### 1.1.1 Some quotes

Nam egestas felis euismod erat tincidunt ornare. Nulla hendrerit tempor purus ac consequat. Aliquam commodo, ipsum vestibulum lobortis semper, urna turpis sagittis dolor, id ullamcorper nulla nisl vitae ex. Vivamus ut metus vel velit rhoncus pulvinar sit amet nec diam. Aliquam aliquet, enim eget efficitur euismod, velit arcu mattis nisl, a mollis dui leo vel libero. Nullam porttitor convallis magna ut feugiat. ‘Cras at ultrices metus.’ Nullam vulputate quis justo sit amet pharetra. Praesent sodales eros non suscipit gravida.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec rutrum sodales ligula, ac aliquam sem interdum at.

Pellentesque sodales lobortis feugiat. Vivamus volutpat mauris id odio aliquam maximus sed sit amet nibh. Fusce odio tortor, aliquam et mauris facilisis, interdum

placerat tortor. Suspendisse dapibus, massa eget cursus congue, mi lectus luctus nisl, vitae sagittis ligula ante sit amet enim. Donec quis sapien vel ex vestibulum porta. Vivamus mattis sodales turpis, id interdum justo ullamcorper a. Aenean ornare urna turpis, id fermentum eros commodo aliquet. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Donec cursus pretium ex at mollis. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Sed at diam quam. Etiam a sollicitudin dui. Nulla facilisi. Phasellus condimentum tincidunt ipsum. Sed dignissim neque a porttitor finibus. Maecenas pretium dictum lorem vitae viverra.

The `\attrib` macro attributes block elements, for example when citing a reference after a block quotation. (Swift (1999))

Donec vitae massa nisi. Praesent sed sollicitudin urna. Suspendisse vitae cursus tortor. In egestas quis dolor ac porttitor. Pellentesque suscipit leo nisi, a semper nunc interdum quis. Aenean massa magna, aliquam imperdiet lorem vitae, vestibulum dignissim nunc. Nunc molestie eleifend dui et porta. Sed auctor eu nunc vel faucibus. Integer et finibus metus, pharetra egestas velit. Sed nec magna semper, rutrum diam vitae, accumsan sapien. Donec congue viverra luctus.



## Chapter 2

# Conclusions

It works.

---

```
This is a test listing
```

```
The test listing has serveral lines  
to show how the listings  
will be displayed
```

---

LISTING 2.1: Listing of what an example listing would be like

## **Appendix A**

### **Stuff**

The following gets in the way of the text...





## **Glossary [if relevant]**



# References

S.R. Gunn. Pdflatex instructions, 2001.

S.R. Gunn and C. J. Lovell. Updated templates reference 2, 2011.

E. Longman. University of Southampton LaTeX documents, 2019.

<https://library.soton.ac.uk/thesis/templates> and  
<https://git.soton.ac.uk/e17g15/uos-latex-template>.

C. J. Lovell. Updated templates, 2011.

Matt Swift. The attrib latex package attribution of block elements (frankenstein's hat), 1999. URL <http://cs.brown.edu/about/system/managed/latex/doc/attrib.pdf>.



# Bibliography

To use bibliography as well as the references section use the `multibbl` package.



**Index [if relevant]**