### A Thesis Title

Author Name

A dissertation submitted in partial fulfillment of the requirements for the degree of  ${\bf Doctor\ of\ Philosophy}$ 

of

University College London.

Department of Something University College London

January 21, 2019

I, Author Name, confirm that the work presented in this thesis is my own. Where information has been derived from other sources, I confirm that this has been indicated in the work.

## Abstract

My research is about stuff.

It begins with a study of some stuff, and then some other stuff and things.

There is a 300-word limit on your abstract.

### Impact Statement

UCL theses now have to include an impact statement. (I think for REF reasons?) The following text is the description from the guide linked from the formatting and submission website of what that involves. (Link to the guide: http://www.grad.ucl.ac.uk/essinfo/docs/Impact-Statement-Guidance-Notes-for-Research-Students-and-Supervisors.pdf)

The statement should describe, in no more than 500 words, how the expertise, knowledge, analysis, discovery or insight presented in your thesis could be put to a beneficial use. Consider benefits both inside and outside academia and the ways in which these benefits could be brought about.

The benefits inside academia could be to the discipline and future scholarship, research methods or methodology, the curriculum; they might be within your research area and potentially within other research areas.

The benefits outside academia could occur to commercial activity, social enterprise, professional practice, clinical use, public health, public policy design, public service delivery, laws, public discourse, culture, the quality of the environment or quality of life.

The impact could occur locally, regionally, nationally or internationally, to individuals, communities or organisations and could be immediate or occur incrementally, in the context of a broader field of research, over many years, decades or longer.

Impact could be brought about through disseminating outputs (either in scholarly journals or elsewhere such as specialist or mainstream media), education, public engagement, translational research, commercial and social enterprise activity, engaging with public policy makers and public service delivery practitioners, influencing ministers, collaborating with a cademics and non-academics etc.

Further information including a searchable list of hundreds of examples of UCL impact outside of academia please see https://www.ucl.ac.uk/impact/. For thousands more examples, please see http://results.ref.ac.uk/Results/SelectUoa.

# ${\bf Acknowledgements}$

Acknowledge all the things!

# Contents

1	Introductory Material	17
2	My First Content Chapter	21
3	My Second Content Chapter	<b>2</b> 5
4	General Conclusions	<b>2</b> 9
$\mathbf{A}_{\mathbf{J}}$	opendices	32
$\mathbf{A}$	An Appendix About Stuff	33
В	Another Appendix About Things	35
$\mathbf{C}$	Colophon	37
Bi	bliography	38

# List of Figures

# List of Tables

#### Chapter 1

### **Introductory Material**

#### **TODOs**

• look at MRes thesis for ideas

Some stuff about things.[1] Some more things.

Inline citation: Anne Author. Example Journal Paper Title. *Journal of Classic Examples*, 1(1):e1001745+, January 1970

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$$\bar{x} = \frac{1}{n} \sum_{i=1}^{n} x_i = \frac{x_1 + x_2 + \dots + x_n}{n}$$

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$$\int_0^\infty e^{-\alpha x^2} dx = \frac{1}{2} \sqrt{\int_{-\infty}^\infty e^{-\alpha x^2}} dx \int_{-\infty}^\infty e^{-\alpha y^2} dy = \frac{1}{2} \sqrt{\frac{\pi}{\alpha}}$$

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$$\sum_{k=0}^{\infty} a_0 q^k = \lim_{n \to \infty} \sum_{k=0}^{n} a_0 q^k = \lim_{n \to \infty} a_0 \frac{1 - q^{n+1}}{1 - q} = \frac{a_0}{1 - q}$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-p \pm \sqrt{p^2 - 4q}}{2}$$

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$$\frac{\partial^2 \Phi}{\partial x^2} + \frac{\partial^2 \Phi}{\partial y^2} + \frac{\partial^2 \Phi}{\partial z^2} = \frac{1}{c^2} \frac{\partial^2 \Phi}{\partial t^2}$$

#### Chapter 2

## My First Content Chapter

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#### Chapter 4

### **General Conclusions**

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$$x_{1,2} = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-p \pm \sqrt{p^2 - 4q}}{2}$$

## Appendix A

# An Appendix About Stuff

(stuff)

## Appendix B

# Another Appendix About Things

(things)

### Appendix C

# Colophon

This is a description of the tools you used to make your thesis. It helps people make future documents, reminds you, and looks good.

(example) This document was set in the Latin Modern type face using LATEX and BibTeX, composed with a text editor.

# Bibliography

[1] Anne Author. Example Journal Paper Title. *Journal of Classic Examples*, 1(1):e1001745+, January 1970.