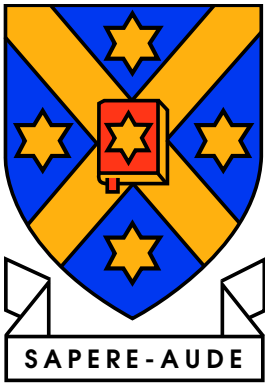
Your thesis title here

Your name here



submitted in partial fulfilment of the degree of

Bachelor of Science, with Honours

at the University of Otago, Dunedin,

New Zealand.

February 17, 2020

Abstract

Put the abstract in this file

Acknowledgements

Put the acknowledgements in this file

Contents

List of Tables

List of Figures

Chapter 1

Introduction

This is the first chapter. Here is an example citation: **?**.

Chapter 2

Literature Survey

Chapter 3

A New Approach

Chapter 4

Implementation

Chapter 5

Results

Chapter 6

Conclusion

Appendix A

Source Code for thesis.dvi

You do not need to include the source code for your thesis (this is just an example). However, including code you have written to solve numerical problems can be useful – talk to your supervisor.

A.1 thesis.tex

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%% This is a document template for an Otago thesis (Masters or PhD).
%% A skeleton chapter layout is also suggested.
%%
%% Look in the directory example_document for filled-out chapters
%% that show you how to do figures, bibliographies, and tables.
%%
%% Since this was written for Computer Science at Otago University,
%% Harvard (author, date) style citations are used.  Other students
%% should consult their advisors as to what style of citations to use.
%%
%% This template was created by Nathan Rountree 9/2/98
%% Updates have since been made by others in the department.
%%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

%%
%% In the style of a technical report, in 12pt and one sided.
%% Start chapters on right hand side pages only.
%%
\documentclass[12pt]{report}
%%\documentclass[12pt,twoside,openright]{report} %% Use this for twosided.

%%
%% Load packages.
%%
\usepackage[bschons,nolibrary]{otagothesis}     %% Use Otago page layout
%% Use [bschons] for BScHons thesis
%%     [msc]     for MSc
%%     [phd]     for PhD
```

```
%%     [dipsci]  for PGDipSci
%%  nolibrary-option omits a library declaration form.

\usepackage[longnamesfirst,round]{natbib} %% Use Natural Sciences bibliography

\usepackage[T1]{fontenc} %% assist clipboard copy from PDF; allow < | > etc.
\usepackage[utf8]{inputenc} %% allow UTF-8 conent in source files

%%\usepackage{times}              %% Times PostScript font. Don't use
                                  %% if thesis contains lots of math.

\usepackage{graphicx}             %% jpg, gif, tiff, and pdf graphics
\usepackage{moreverb}             %% Verbatim Code Listings

% Standard Physics additions
\usepackage{amssymb,amsmath}
\usepackage{siunitx}
\usepackage[colorlinks=true,pdfstartview=FitV,linkcolor=blue,
            citecolor=blue,urlcolor=blue]{hyperref}

%%
%% Set title, author and date.
%%
\title{Your thesis title here} % <-- Your thesis title here
\author{Your name here} % <-- Add your name here
\date{\today} % <-- Submission date here.

%%
%% The library want to know all sorts of personal stuff!
%% Can be left out if you don't use the \frontstuff command
%%
\fullname{Your full name here} % <-- Add your name here
\department{Department of Physics}
%\dob{1 January 1900} %% date-of-birth, only needed for library declaration
\address{730 Cumberland Street, Dunedin, NZ}

%%
%% Uncomment to just print up a few chapters.
%%
%%\includeonly{literature,conclusion}

%%
%% Go!
%%
\begin{document}

%%
%% Put in titlepage and contents, etc...
%%
\frontstuff

%%
%% Set to one-and-a-half line-spacing
%%
\linespread{1.3} \normalsize
```

```
%%
%% Include each chapter as a separate file.
%% These lines assume there are files called intro.tex, literature.tex etc.
%%
\include{intro}

\include{literature}

\include{new_ideas}

\include{implementation}

\include{results}

\include{conclusion}

%%
%% Make certain the ``references'' section begins on a recto page when
%% document is double-sided.
%% The ``bibliography'' line assumes that there is a file called
%% ``thesis.bib'' and that somewhere in the chapter material you have
%% cited something from it.
%%
\cleardoublepage
\bibliographystyle{otago}
\bibliography{thesis}

\include{appendices}

\end{document}
%% All Done!
```

A.1.1 abstract.tex

```
Put the abstract in this file
```

A.1.2 acknowledgements.tex

```
Put the acknowledgements in this file
```

A.1.3 intro.tex

```
\chapter{Introduction}
\label{chap:intro}

This is the first chapter.  Here is an example citation:
\citet{rountree98}.
```

A.1.4 literature.tex

```
\chapter{Literature Survey}
\label{chap:lit}
```

A.1.5 new_ideas.tex

```
\chapter{A New Approach}
\label{chap:new}
```

A.1.6 implementation.tex

```
\chapter{Implementation}
\label{chap:implementation}
```

A.1.7 results.tex

```
\chapter{Results}
\label{chap:results}
```

A.1.8 conclusion.tex

```
\chapter{Conclusion}
\label{chap:conclusion}
```

A.1.9 appendices.tex

```
%%
%% Now we have to get the source code in as a set of Appendices.
%% Source code will be Appendix A, with each file numbered X.y
%%
\appendix

%%
%% -> \chapter will cause the next bit to be labelled Appendix A
%% -> \section will give us A.1, \subsection A.1.1 etc.
%%
%% I suggest a section for each program and a subsection for each file
%% in the program.  Alternatively, a chapter for each program, a
%% section for each library and a subsection for each file.
%%
\chapter{Source Code for thesis.dvi}

You do not need to include the source code for your thesis (this is just an example).
However, including code you have written to solve numerical problems
can be useful -- talk to your supervisor.

\linespread{1}
\footnotesize

\section{thesis.tex}
\listinginput[10]{1}{thesis.tex}

\subsection{abstract.tex}
\listinginput[10]{1}{abstract.tex}

\subsection{acknowledgements.tex}
\listinginput[10]{1}{acknowledgements.tex}

\subsection{intro.tex}
```

```
\listinginput[10]{1}{intro.tex}

\subsection{literature.tex}
\listinginput[10]{1}{literature.tex}

\subsection{new\_ideas.tex}
\listinginput[10]{1}{new_ideas.tex}

\subsection{implementation.tex}
\listinginput[10]{1}{implementation.tex}

\subsection{results.tex}
\listinginput[10]{1}{results.tex}

\subsection{conclusion.tex}
\listinginput[10]{1}{conclusion.tex}

\subsection{appendices.tex}
\listinginput[10]{1}{appendices.tex}

%%
%% \listinginput[x]{y}{filename} gives a listing of <filename>,
%% starting at line y with a line-number at every xth line.
%%
```