

Title of Your Thesis

by
Full Name

A THESIS
SUBMITTED TO THE PROGRAM OF
DEPARTMENT NAME
AND THE FACULTY OF GRADUATE STUDIES
OF TRENT UNIVERSITY
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE DEGREE OF
DEGREE NAME

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Trent University
Peterborough, Ontario, Canada
Month Year

Title of Your Thesis

by
Full Name

Supervisory Committee

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Abstract

Title of Your Thesis

Full Name

Write your abstract here. State the problem, the approach, the main results and what they mean, in plain language and without citations or equations. A Master's abstract is limited to 150 words, and a PhD abstract to 350 words.

Keywords: keyword one, keyword two, keyword three

Acknowledgements

I would like to express my gratitude to everyone who supported me while I completed this thesis. Thank your supervisor and committee, and any organization or funding body that supported the research.

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1 Introduction

Introduce the topic of the thesis here. The first paragraph after a heading is not indented, and every later paragraph is, so you do not have to add indentation yourself. Leave a blank line between paragraphs.

Chapters start on a new page. Headings are bold and set at 20 pt for a chapter, 16 pt for a section, 14 pt for a subsection and 12 pt below that. Chapters, sections and subsections are numbered; deeper levels are not.

1.1 Background and Brief History

Describe the setting of your work, and the history that leads to your research questions.

1.2 Research Questions and Contributions

State the questions your thesis answers and what you contribute.

1.3 Thesis Organization

Chapter 2 reviews previous work. Chapter 3 shows how to cite, write equations, build tables and cross-reference. Chapter 4 shows how to add figures and plots. Chapter 5 concludes the thesis. Delete the example chapters once you have read them, and replace them with your own.

2 Related Work

This chapter covers previous research related to this thesis. The first paragraph of every chapter has no indentation.

Every paragraph after the first is indented. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

To create a numbered list, use the `enumerate` environment:

1. List item 1
2. List item 2

For a bulleted list, use `itemize` in the same way.

2.1 Related Work Subheading 1

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

2.2 Related Work Subheading 2

Write about a second line of related work.

2.3 Summary

Summarize what the literature leaves open, and which gap your thesis fills.

3 Citations, Equations and Tables

This chapter shows how to cite sources, write equations, cross-reference and build tables.

3.1 How to Cite

Add the BibTeX entry of each source to `references.bib`, then cite it with its key. A citation in the text looks like this [1]. Several sources go in one command, as in [1, 2], and the numbers are sorted and compressed. To use the author’s name as part of the sentence, write Doe [3] reported a result. The bibliography follows the IEEE style and appears at the end of the thesis.

3.2 How to Write Equations

An inline variable is written between single dollar signs, such as x . A vector is written with `\mathbf`, as in $\mathbf{x} \in \mathbb{R}^n$. A standalone equation that is not numbered goes in `\[ ... \]`:

$$\mathbf{x} = y + z$$

To number an equation and refer to it later, use the `equation` environment with a label:

$$x = y + z \tag{3.1}$$

This equation is referred to as Equation (3.1).

Several lines in one block use the `align` environment, which numbers every line. Give each line its own label to refer to it:

$$x = y + z \tag{3.2}$$

$$z = q + t \tag{3.3}$$

Equation (3.2) and Equation (3.3) are the two lines. Use `\nonumber` on a line, or the starred `align*` environment, to leave a line unnumbered.

3.3 How to Cross-Reference

Give a chapter, section, table or figure a `\label`, and point to it with `\ref`. Write the word that names it yourself, followed by a non-breaking space, as in Section 3.1 or Chapter 1. In the PDF, clicking the number takes the reader to the target. A label must come after the `\caption` of a table or figure, or the number will be wrong.

3.4 How to Add Tables

The caption of a table goes beneath the table. Table 3.1 shows a simple table. Use `booktabs` rules (`\toprule`, `\midrule`, `\bottomrule`) and no vertical lines.

Column 1	Column 2
Item 1	0.00
Item 2	1.00
Item 3	66.30
Item 4	100
Item 5	−100.23

Table 3.1: Caption of the table.

Table 3.2 groups rows with `\multirow`. A table that is wider than the text block goes inside `adjustbox` so that it shrinks to fit the margins. Tables are single-spaced inside; only the running text is double-spaced.

Column 1	Column 2	Column 3
Item 1	Thing 1	1, 2, 2
	Thing 2	3 , 2, 1
	Thing 3	2 , 3, 4
	Thing 4	3 , 4, 5
Item 2	Thing 1	100 , 200, 300
Item 3	Thing 1	50, 100, 200, 300
	Thing 2	None, 5, 10, 15 , 20
	Thing 3	2 , 3, 5, 6
	Thing 4	1 , 2, 3

Table 3.2: Another table, with grouped rows.

3.5 Summary

Close each chapter with a short summary of what it showed and what follows.

4 Figures and Plots

This chapter shows how to add images and plots, and how deeper heading levels look.

4.1 How to Add an Image

Put the image file in the `figures/` folder and include it with `\includegraphics`. PDF, PNG and JPG files work; prefer PDF for plots, because it stays sharp at any size. The caption of a figure goes beneath the figure. Figure 4.1 shows the placeholder image that comes with the template. Replace `example-figure` with the name of your own file.

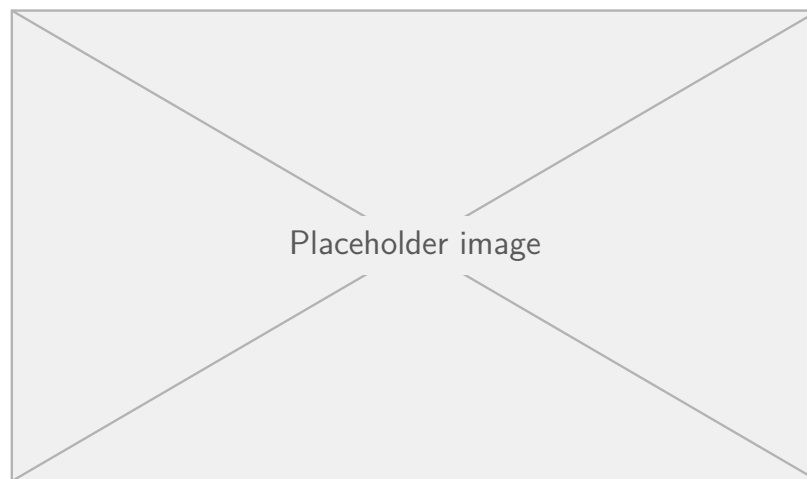


Figure 4.1: Caption of the figure, placed beneath it.

4.2 How to Create a Plot

Export plots from your analysis tool (Python, R or MATLAB) as PDF and include them as in the previous section. To draw a plot inside the document instead, use

`pgfplots`. Figure 4.2 shows a grouped bar chart of made-up numbers for twelve models and three metrics.

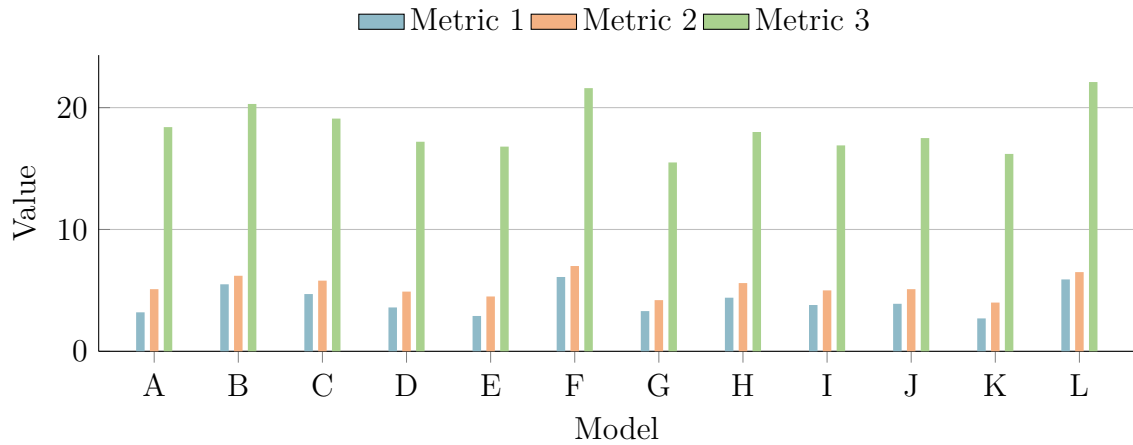


Figure 4.2: A grouped bar chart drawn with `pgfplots`, using made-up numbers.

4.3 Heading Levels

Below a section come subsections, which are numbered, and subsubsections and paragraph headings, which are not.

4.3.1 A Subsection

Text of the subsection.

A Subsubsection

Text of the subsubsection. This level is not numbered and does not appear in the Table of Contents.

A Paragraph Heading

Text under a paragraph heading, set at the same size as a subsubsection.

5 Conclusion

Restate the problem and the main findings of the thesis.

5.1 Contributions

List what your work adds, and be specific about what each contribution rests on.

5.2 Future Work

Describe the questions that remain open and the next steps.

Bibliography

- [1] A. Example, “An example entry for the template,” 2025.
- [2] J. Doe and R. Roe, *An Example Book Title*. Peterborough, ON, Canada: Example Press, 2024.
- [3] J. Doe, “An example conference paper,” in *Proceedings of the Example Conference*, 2023, pp. 1–8.