

YOUR THESIS TITLE

by
Your Name

Thesis
submitted in partial fulfillment of the requirements for
the Degree of Master of Science (Mathematics and Statistics)

Acadia University
Spring/Fall Convocation YYYY

© by Your Name, Same Year As Defense

This thesis by Your Name was defended successfully in an oral examination on Month day, Year.

The examining committee for the thesis was:

Dr. Chair, Chair

Dr. External Reader, External Reader

Dr. Internal Reader, Internal Reader

Dr. Supervisor, Supervisor

Dr. Department Head, Department Head

This thesis is accepted in its present form by the Division of Research and Graduate Studies as satisfying the thesis requirements for the degree Master of Science (Mathematics and Statistics).

.....

I, Your Name, hereby grant permission to the University Librarian at Acadia University to provide copies of the thesis, upon request, on a non-profit basis.

Author

Supervisor

Date

Contents

Abstract	vii
Acknowledgments	viii
1 Introduction	1
2 Examples	2
2.1 Equations	2
2.2 Tables	3
2.3 Figures	4
A Glossary of Terms	5
Bibliography	7

List of Tables

2.1	<i>Example positions and variables represented by γ.</i>	3
2.2	<i>Symbols used in this thesis.</i>	4
A.1	<i>Symbols used in this thesis.</i>	6

List of Figures

2.1 *Example inheritance chain for 2 predictors.* 4

Abstract

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam vulputate sapien ut leo sollicitudin, ac rhoncus mauris tristique. Nulla sit amet sollicitudin dolor. Quisque sit amet turpis sed eros sodales feugiat. Phasellus ultricies tempor justo, ac dignissim libero auctor vel. Cras eu elementum mauris, vel porttitor massa. Vivamus mi nunc, ullamcorper vel ligula eget, commodo congue arcu. Donec felis ipsum, ultricies vitae ultricies eu, interdum id justo. Aenean vitae pellentesque sapien.

Fusce nulla quam, consectetur eu nisi in, interdum pulvinar dui. Ut elit lorem, porttitor lacinia tortor vel, malesuada vestibulum mauris. Phasellus aliquet orci enim, id finibus quam tristique sed. Curabitur sed turpis nunc. Fusce lobortis, turpis a facilisis pulvinar, risus ante vulputate neque, nec posuere sapien libero id nibh. Morbi porta rhoncus purus. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Nullam varius magna non erat pharetra, sit amet maximus tortor sollicitudin. Phasellus pharetra, eros non ultricies elementum, nulla nisi imperdiet diam, sed tristique justo enim at sem. Morbi nec turpis porttitor, egestas libero non, pharetra magna. Vestibulum ante enim, tristique ut dui in, dapibus posuere sapien. Phasellus vehicula condimentum sapien ut fringilla. Nunc elementum fringilla odio, a condimentum nibh consectetur eget. Curabitur velit elit, rhoncus in hendrerit non, feugiat quis eros. Curabitur quis lacinia magna.

Acknowledgments

Thank your supervisor, your Department, and anyone who contributed significantly to your success.

Chapter 1

Introduction

Chapter 2

Examples

This file contains a number of examples and templates that you can use while you write your thesis.

The first example is how to use a citation. `\citet` does an in-text citation, e.g. Bingham and Chipman (2002) covers a number of important points required for this thesis. An in-text citation should be used whenever the citation is a natural component of the sentence.

A parenthetical citation is used when a sourced isn't explicitly mentioned in the text, but you would like to cite the ideas incorporated or presented in it, e.g. The simplest way to define a partial ordering of inheritance for a dependent prior is to use the operations used to generate the predictors (Bingham and Chipman, 2002).

2.1 Equations

Environments for equations, tables, and figures are also quite useful. Here are some templates that you can use.

For equations, use the `align` environment for multi-line equations, and the `equation` for a one-line equation. You can use labels in those equations

$$X \sim \mathcal{N}(0, \sigma^2) \tag{2.1}$$

$$P(X < 4) = \frac{1}{\sigma\sqrt{2\pi}} \exp \frac{-16}{2\sigma^2} \quad (2.2)$$

You can add labels to individual lines for an `align` environment, and then use `\eqref{eq:labelname}` to reference it. So in this place I can say that the distribution of X is described in (2.1).

Equations should flow with the paper, so make sure to include proper punctuation, even if it looks a little strange. As an example, X *follows the distribution*

$$\mathcal{N}(0, \sigma^2), \quad (2.3)$$

which makes it amenable to many different types of manipulations.

As you can see, the equation was a clause of the sentence, and so was properly followed by a comma.

2.2 Tables

Tables should appear in `table` environments, which have support for captions. The table below can be used as a template, for short tables.

Position	1	2	3	4	4	6	7	8	9
Predictor	A_1	A_1^2	A_2	A_2^2	B_1	B_1^2	B_2	B_2^2	AB

Table 2.1: *Example positions and variables represented by γ .*

The `toprule`, `midrule`, and `bottomrule` commands make horizontal rules of varying widths, that nicely format the table for viewing.

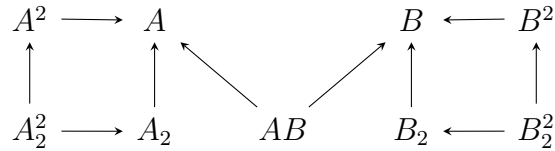
If your table is especially long, use the `longtable` environment. This environment allows you to specify a header to repeat at the beginning of each new page the table spans. Longtables do not require the `table` environment, since they are a wrapper and will take care of that themselves. The only thing to note is that **the caption and the label must appear within the table body, not afterwards**. The `endhead` directive marks the end of the header to be repeated.

Symbol	Description
γ	Vector of binary (0/1) values indicating inclusion of particular predictors in the model.
γ_j	Inclusion (0/1) value for predictor j .
$\gamma_{(-j)}$	All of gamma without the entry for j .
$X, (d)$	Set of all predictors (number of predictors).
$X_m, (d_m)$	Set of main predictors (number of main predictors).

Table 2.2: *Symbols used in this thesis.*

2.3 Figures

Figures should reside in the `figures/` directory, and are included in a `figure` environment, similar in layout to the `table` environment. In the figure below, there is a `tikz` example.

Figure 2.1: *Example inheritance chain for 2 predictors.*

For figures that you're generating from plotting programs like Matlab or R, it's best to generate the plots as PDFs. Keep in mind that the page dimensions are 8.1 inches high, and 6 inches across. Generating your plots to take these measurements into account will make your life easier when it comes to typeset larger figures.

Appendix A

Glossary of Terms

Term/Symbol	Description
γ	Vector of binary (0/1) values indicating inclusion of particular predictors in the model.
γ_j	Inclusion (0/1) value for predictor j.
$\gamma_{(-j)}$	All of gamma without the entry for j.

Bibliography

D. R. Bingham and H. A. Chipman. Optimal designs for model selection. *Technometrics*, 2002.