#### UNIVERSITY OF CALGARY

An Important Contribution to the Literature

by

Jane Mary Doe

# A THESIS SUBMITTED TO THE FACULTY OF GRADUATE STUDIES IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

GRADUATE PROGRAM IN PHILOSOPHY

CALGARY, ALBERTA
May, 2019

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## **Abstract**

The abstract is a concise and accurate summary of the research contained in your thesis. It gives the reader a snapshot of your research by highlighting key points. It includes the problem, method of study, and general conclusion; relevant key words that will help people find your research. It must be no longer than 350 words (Note: hyphenated words or words separated by a slash are counted as two words). It must be double-spaced or one-half spaced, and not contain graphs, tables, or illustrations.

## **Preface**

The preface gives a statement of where the information included in your thesis came from. It gives credit to the authors who informed your work. A manuscript-based thesis must include an explanation of which parts of your thesis were already published and details of the publication. For example:

Portions of the introductory text of Chapter 1 are used with permission from Smith et al. (2015) of which I am an author. Table 1.1 is modified from Supplementary Table 3 in Smith et al. (2014). Chapter 2 of this thesis has been published as J. Smith and J. Doe, "Title of Article". Journal Name, vol. 1, issue 1.

For a traditional thesis requiring ethics approval, include the name of the board that approved the research project, the title of the project, and the number of the approval certificate. For example:

This thesis is original, unpublished, independent work by the author, J. Doe. The experiments reported in Chapters 2–4 were covered by Ethics Certificate number 007, issued by the University of Calgary Conjoint Health Ethics Board for the project "Project Title" on December 15, 2016.

For a traditional thesis with no ethics approval required, simply state something along the lines of:

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## Acknowledgments

The acknowledgments are a place for you to thank/recognize academics or organizations that supported you (remember you cannot make changes once your thesis is submitted, so be thoughtful!) You should include this when you want to acknowledge people who may or may not be formally recognized in your thesis elsewhere. People usually mentioned in the acknowledgments include your supervisor and committee, grant support, helpful fellow students, lab mates, or family members.

Since we're using Lambar and the memoir package, we should thank Don Knuth, Leslie Lamport, and Peter Wilson.

<sup>&</sup>lt;sup>1</sup>These are the authors of Knuth (1986); Lamport (1986); Wilson (2016).

To mom.

## **Table of Contents**

Ał	ostrac	et ii
Pr	eface	iii
Ac	knov	vledgments
De	edica	tion vi
Ta	ble o	f Contents vii
Li	st of '	Tables viii
Li	st of ]	Figures ix
1	Intr	oduction
	1.1	Literature Review
	1.2	Contributions of the Thesis
2	Imp	oortant Results
	2.1	The first result
	2.2	The second result
No	otes	
Bi	bliog	raphy 12
Ar	neno	lix 13

## **List of Tables**

1.1 Letters and numbers	5
-------------------------	---

## **List of Figures**

2.1	Circles and arrows	8
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## Chapter 1

#### Introduction

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Anonymous

The text above is an *epigraph*. In this typeface, you can have text in **boldface**, *italics*, *bold italics*, *slanted*, and SMALL CAPS.

#### 1.1 Literature Review

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**Definition 1.** A group *G* is said to be *abelian* (or *commutative*) if for every  $a, b \in G$ ,  $a \cdot b = b \cdot a$ .

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#### 1.2 Contributions of the Thesis

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Table 1.1: Letters and numbers

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## Chapter 2

## **Important Results**

#### 2.1 The first result

**Theorem 2** (Residue Theorem). Let f be analytic in the region G except for the isolated singularities  $a_1, a_2, \ldots, a_m$ . If  $\gamma$  is a closed rectifiable curve in G which does not pass through any of the points  $a_k$  and if  $\gamma \approx 0$  in G, then

$$\frac{1}{2\pi i} \int_{\gamma} f = \sum_{k=1}^{m} n(\gamma; a_k) \operatorname{Res}(f; a_k).$$

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 $0 \rightarrow 0$ 

Figure 2.1: Circles and arrows

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#### 2.2 The second result

#### The first half

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#### **Notes**

#### **Chapter 1 Introduction**

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#### **Chapter 2 Important Results**

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https://ctan.org/pkg/memoir?lang=en.

## Appendix

An appendix is a way to include important information that would otherwise clutter up your thesis. It should be included when there is additional relevant information that won't fit in the body of your thesis. Any Appendix must also be mentioned in the body of your thesis (e.g., "For a full list of interview questions used, please see the Appendix"). If your thesis only has one appendix, it must be titled "Appendix." If your thesis has more than one appendix, add alphabetized letters, starting with "Appendix A." The following are examples of things you might include in appendices:

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- 3. Diagrams of equipment that you developed
- 4. Digital files and/or artwork digital models
- 5. Blank copies of questionnaires or surveys used in your research