

L^AT_EX Template for Rackham Dissertations

by

Jane R. Doe

A dissertation submitted in partial fulfillment
of the requirements for the degree of
Doctor of Philosophy
(Physics)
in the University of Michigan
2022

Doctoral Committee:

Professor John D. Brown, Co-Chair,
Professor Emeritus Ann A. Smith, Co-Chair
Dr. Alicia Gonzalez, Mellon Foundation
Assistant Professor Charles Z. Jones
Associate Professor Kathleen X. Lee, Yale University
Associate Professor Horace H. Rackham

Jane R. Doe

jdoe@umich.edu

ORCID iD: [9999-9999-9999-9999](https://orcid.org/9999-9999-9999-9999)

© Jane R. Doe 2022

Dedication

This manual is dedicated to all doctoral students at the University of Michigan's Horace H. Rackham School of Graduate Studies.

Acknowledgments

This template has been modified by a lot of people over the years. To the best of my knowledge, its original version was written by Jin Ji in 1988. Modifications to it have since been made by Roque D. Oliveira in 1992, Jason Gilbert in 2008, Derek Dalle in 2011, and Umang Varma in 2019. It is possible that other people have modified this document (in fact, there is an unattributed change in the changelog dated 1989.11.29).

Preface

This is a joint work of several people.

Foreword

This dissertation is a sample document using the `thesis-umich.cls` template.

Prologue

Feel free to write your own masterpiece.

Table of Contents

Dedication	ii
Acknowledgments	iii
Preface	iv
Foreword	v
Prologue	vi
List of Figures	viii
List of Tables	ix
List of Appendices	x
List of Abbreviations	xi
List of Algorithms	xii
Abstract	xiii
Chapter 1 Using This Template	1
Chapter 2 Using Abbreviation/Acronym/Symbol/Figure/Table/Algorithm	2
2.1 Section Title	2
Appendices	4

List of Figures

Figure 2.1	short title 1	2
Figure 2.2	short title 2	2

List of Tables

Table 2.1 Table 1 2

List of Appendices

Appendix A	Example Appendix	4
Appendix B	Example Appendix	5

List of Abbreviations

ABBREV1 abbreviation 1

List of Algorithms

Algorithm 2.1	Algorithm 1	3
---------------	-----------------------	---

Abstract

With walk through basic steps of using this \LaTeX template.

Chapter 1 Using This Template

The approach to this template is to result in \LaTeX source files (i.e., `.tex` files) that are as simple as possible. This is particularly useful for the first few pages, for example the title page, dedication, and abstract page, which are difficult to make in \LaTeX and are supposed to go in a certain order.

You are welcome to modify `thesis-umich.cls` to suit your needs or keep up with modifications to Rackham guidelines. I used this template to submit my dissertation in 2019, but Rackham can change their rules at any time. If you have not modified a `.cls` file before, but know how to define commands in \TeX , you should not have much trouble, apart from the sneaky `@` character, which behaves like a letter in `.cls` files but not in `.tex` (see “What do `\makeatletter` and `\makeatother` do?” on \TeX StackOverflow and “Makeatletter and Makeatother” on the \TeX Users Group for more information).

Finally, you should be able to use your preferred bibliography manager (BibTeX, BibLaTeX, NatBib, etc.). If the `\bibliography` command is causing trouble, look in `thesis-umich.cls`, because it was modified there. You can also look at that code for help with formatting bibliographies that are displayed with other commands.

References

- [1] D. E. Knuth, *The TeXbook* (Addison-Wesley Professional, 1986).

Chapter 2 Using Abbreviation/Acronym/Symbol/Figure/Table/Algorithm

The list of abbreviations is initialized before we begin the document in `.tex` file. The word abbreviation 1 (ABBREV1) is mentioned here, so it appears in the list of abbreviations. Referring to ABBREV1 a second time shows only the abbreviation. Unmentioned items in the initialization of "abbreviations" is not listed.

2.1 Section Title

This is a test for citation [1]

This is a test for figure: Figure 2.1 Figure 2.2



Figure 2.1: long description 2



Figure 2.2: long description 2

This is a test for table: Table 2.1

This is a test for algorithm: Algorithm 2.1

Table 2.1: Long description table 1

Parameter	Best-fit Value	Uncertainty σ
ϵ	1.0	0.2
θ	2.0	0.3
α	3.0	0.5

References

[1] D. E. Knuth, *The TeXbook* (Addison-Wesley Professional, 1986).

Pseudo Code Snippet 2.1 Algorithm 1

1: **Write** an algorithm

▷ Add comment here

Appendix A Example Appendix

The command

```
\showlistofappendices
```

must appear in the preamble if there are more than one appendix. For some reason, Rackham does not want the individual appendices and their sections to appear in the Table of Contents, so a special List of Appendices page (which must occur in the Table of Contents!) is required as a sort of extension to the Table of Contents.

Appendix B Example Appendix

B.1 Lists Including the Appendices

The command

```
\showlistofappendices
```

must appear in the preamble if there are more than one appendix. For some reason, Rackham does not want the individual appendices and their sections to appear in the Table of Contents, so a special List of Appendices page (which must occur in the Table of Contents!) is required as a sort of extension to the Table of Contents.