

To the Graduate Council:

I am submitting herewith a dissertation written by Student A. Name entitled “Analysis on some data using some technique.” I have examined the final paper copy of this dissertation for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, with a major in Computer Science.

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Jane P. Doe, Major Professor

We have read this dissertation  
and recommend its acceptance:

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Member A. Davis

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Member B. Miller

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Member C. Smith

Accepted for the Council:

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(Original signatures are on file with official student records.)

# **ANALYSIS ON SOME DATA USING SOME TECHNIQUE**

A Dissertation Presented for the  
Doctor of Philosophy  
Degree  
The University of Tennessee, Knoxville

Student A. Name  
December 2019

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## **DEDICATION**

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# ABSTRACT

The content of the abstract is determined by the student and committee, the following information is appropriate: (1) a short statement concerning the area of investigation, (2) a brief discussion of methods and procedures used in gathering the data, (3) a condensed summary of the findings, and/or (4) conclusions reached in the study.

The abstract will be used by the University of Tennessee Libraries in cataloguing the thesis or dissertation. Therefore, the abstract must NOT exceed 350 words in length. Furthermore, if the abstract contains any special characters (those characters not found on typical English-language keyboards) the student must also write out the term or concept in plain English in square brackets immediately following the special character. For example:  $\pi$  [pi]. If you have questions about what qualifies as a special character, please check with the thesis/dissertation consultant.

## **PREFACE**

A personal statement about the purpose and scope of the thesis/dissertation could be included in the preface. The tone of the preface, however, must be academic and appropriate to scholarly work. This page is optional.



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## **LIST OF ABBREVIATIONS**

AAA	American Anthropology Association
APA	American Psychological Association
IEEE	Institute of Electrical and Electronics Engineers
AI	Artificial intelligence
CNN	Convolutional neural networks
SaaS	Software as a service
R&D	Research and development
UTK	University of Tennessee, Knoxville

## LIST OF SYMBOLS

$\phi_p$	Horizontal stress
$\beta$	Angle between the normal and horizontal planes
$\pi$	Pi
$i$	Imaginary unit
$P_2$	Universal parabolic constant
$t_i$	Time at step $i$
$\Delta\mu$	Change in energy

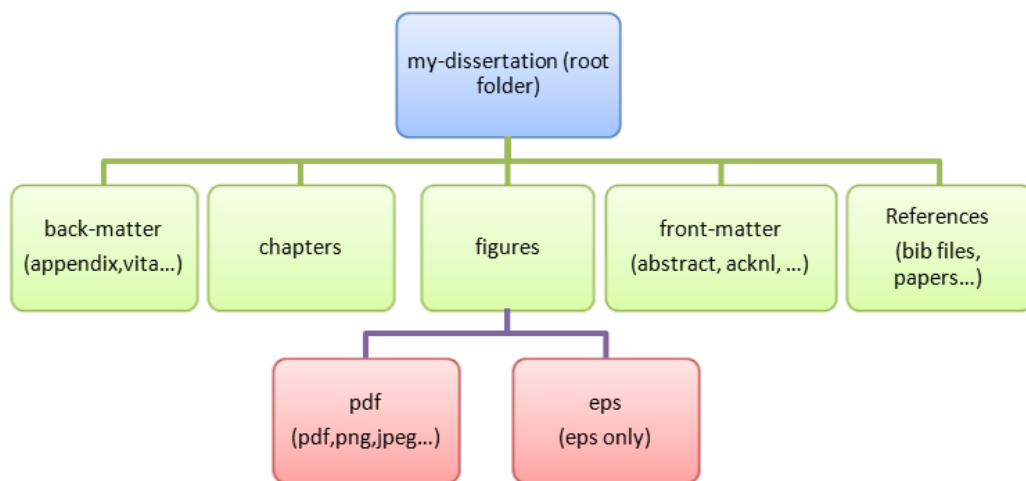
# CHAPTER 1

## INTRODUCTION

This is a guide to an unofficial thesis/dissertation template for the University of Tennessee. It is based on the 2017 *Guide to the Preparation of Theses and Dissertations* but can be easily altered as the guidelines are changed. This template requires a basic knowledge of  $\text{\LaTeX}$  and should cover the basic requirements in terms of required packages and functionality for the University of Tennessee. **This is a note with custom color.** **This is a note with default color.** Figures should have at least 1.5in between text.

Not sure when website specifications incomprehensibilities were updated.

This is a margin note used during revisions, not the final draft.



**Figure 1-1.** UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

The general structure of this template is based on the tree shown in [Figure 1-1](#). The titles of the folders are self descriptive and should guide you to proper file placement. Note that this is only a suggested model that could be modified to fit your own organizational structure.

### 1.1 A Section multiple lines

This is a paragraph found in a section part.

### 1.1.1 A subsection

This is a paragraph found in a subsection part. For more information, check: [http://en.wikibooks.org/wiki/LaTeX/Floats,\\_Figures\\_and\\_Captions](http://en.wikibooks.org/wiki/LaTeX/Floats,_Figures_and_Captions)

### 1.1.2 Another subsection

This is a paragraph found in another subsection part.

#### 1.1.2.0 A subsubsection

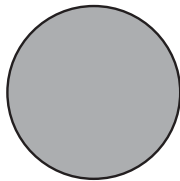
This is a paragraph found in a subsubsection part.

#### 1.1.2.0 A second subsubsection

This is a paragraph found in another subsubsection part. Refer to [section A.1](#) in [Appendix A](#) for further information.

## 1.2 Multipart figures

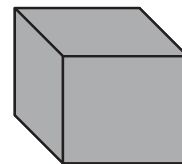
This is a paragraph found in another section part.



(a) Circle



(b) Rectangle



(c) Cube

**Figure 1-2.** Geometric shapes, each presented as a subfigure. (a) is a circle, (b) is a rectangle, and (c) is a cube.

For multipart figures (e.g., [Figure 1-2b](#)), you need to use the package “subcaption”.

**Table 1-1.** A multirow table example.

col1	col2	col3
Multiple rows	cell2	cell3
	cell5	cell6
	cell8	cell9

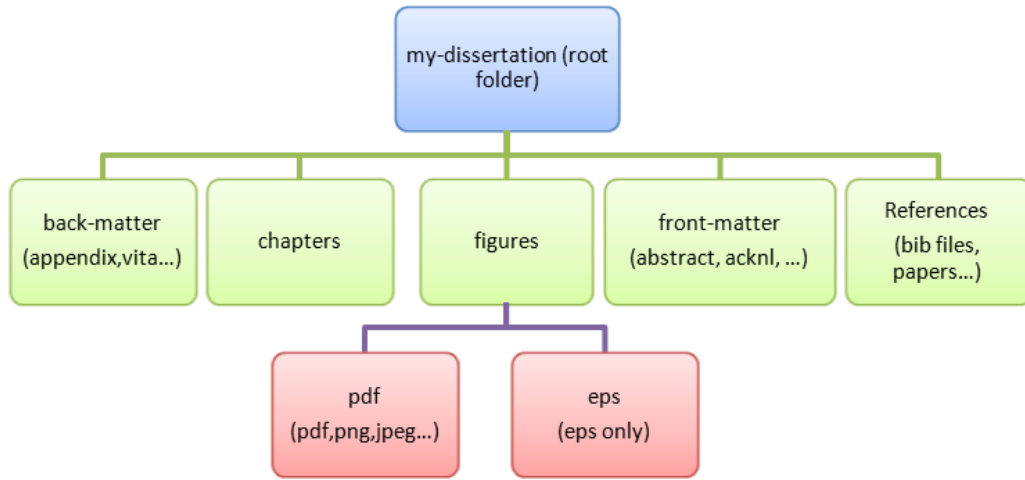
Discussing some analysis results from [Table 1-1](#). It all started at [section 1.1](#) and never ended ...



## CHAPTER 2

### EXPERIMENTS

This is a citation [1]. This is a very short guide to an unofficial thesis/dissertation template for the University of Tennessee<sup>1</sup>. It is based on the 2017<sup>2</sup> thesis specifications but can be easily altered as the guidelines are changed. This template requires a basic knowledge of  $\text{\LaTeX}$  and should cover the basic requirements in terms of required packages and functionality.



**Figure 2-1.** UT thesis template folder structure. The main LaTeX file and BibTeX file are in the top directory. All other files are placed in any of the four folders (back-matter, chapters, figures, front-matter).

Again, in [Figure 2-1](#) is the folder structure.

### 2.1 Details

$$die\ yield = wafer\ yield \times \frac{1}{\left(1 + \frac{defects\ per\ unit\ area \times die\ area}{N}\right)^N} \quad (2.1)$$

<sup>1</sup>UTK is a public university in Knoxville, TN

<sup>2</sup>The 2017 template was based on a 2016 template

Use the die yield model to obtain [equation 2.1](#).

My life summary is found in [Chapter B.1](#).

This is a citation [\[2\]](#). This is a citation [\[3\]](#). This is a citation [\[4\]](#). This is a citation [\[5\]](#).  
This is a citation [\[6\]](#). This is a citation [\[7\]](#). This is a citation [\[8\]](#). This is a citation [\[9\]](#).  
This is a citation [\[10\]](#). This is a citation [\[11\]](#). This is a citation [\[12\]](#). This is a  
citation [\[13\]](#). This is a citation [\[14\]](#). This is a citation [\[15\]](#). This is a citation [\[16\]](#).

## CHAPTER 3

### RESULTS

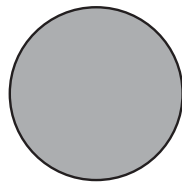
This is more text, see [\[17\]](#).

**Table 3-1.** A multirow table example.

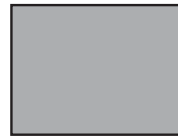
col1	col2	col3
Multiple rows	cell2	cell3
	cell5	cell6
	cell8	cell9

Discussing some analysis results from [Table 3-1](#).

#### 3.1 Plots



(a) Circle



(b) Rectangle

**Figure 3-1.** Geometric shapes, each presented as a subfigure. (a) is a circle and (b) is a rectangle

For multipart figures (e.g., [Figure 3-1](#)), you need to use the package “subcaption”.

# **CHAPTER 4**

## **CONCLUSIONS**

This is the last chapter and we can reference previous chapters, for example, [Chapter 1](#) provided the introduction.

### **4.1 Future Work**

A lot more can be done.

## **LIST OF REFERENCES**

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- [15] H. Anzt, **Eduardo. Ponce**, G. D. Peterson, and J. Dongarra, “GPU-accelerated co-design of induced dimension reduction: Algorithmic fusion and kernel overlap,” in *Presentation at the 2<sup>nd</sup> International Workshop on Hardware-Software Co-Design for High Performance Computing (Co-HPC’15)*, (Austin, TX), Nov 2015.
- [16] **Eduardo. Ponce**, “Session chair at the 2<sup>nd</sup> International Conference on Software Technology and Engineering (ICSTE’10), San Juan, PR,” Oct 2010.
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## **APPENDICES**



# **APPENDIX A**

## **SAFETY**

Here is a math equation:  $y = mx + b$   
The above equation represents a line.

### **A.1 An appendix section**

This is a section in Appendix A.

### **A.1.1 An appendix subsection**

This is a subsection in Appendix A.

#### **A.1.1.0 An appendix subsubsection**

This is a subsubsection in Appendix A.

#### **A.1.1.0 Another appendix subsubsection**

This is another subsubsection in Appendix A.

## **APPENDIX B**

### **SIMD**

This is another appendix for testing format.

#### **B.1 A section**

This is a section in Appendix B.

## **VITA**

The vita should be written in narrative form, not resume or curriculum vitae form. It should contain appropriate academic and professional information about the author/student. Personal information, such as the student's address or phone number, should not be included.