

ABSTRACT

TITLE OF MY DISSERTATION

by
Full Name

150 words or less for a Master's Thesis; 350 words or less for a Doctoral Dissertation
(no page number).

Include a brief statement of the problem, description of methods, and a summary
of most important results and conclusions.

Minimize description of the importance of topic.

Use present tense.

Describe what was actually done in the research in third person (aka passive
voice). (Do not use I, we, my, our or us.)

My lawyer advises me to include this. ¹

¹DISCLAIMER: The names, events, and publications are fictional. They are provided as
the sole purpose of clarifying the general format. Any resemblance to real names, events
and publications is entirely accidental.

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"eats" your dissertation which in itself is an excellent lesson on backup.

TITLE OF MY DISSERTATION

**by
Full Name**

**A Dissertation
Submitted to the Faculty of
New Jersey Institute of Technology
in Fulfillment of the Requirements for the Degree of
Doctor of Philosophy in Electrical Engineering**

**Helen and John C. Hartmann
Department of Electrical and Computer Engineering**

May 2023

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APPROVAL PAGE

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- L. V. Beethoven, W. A. Mozart, F. Chopin, and A. Vivaldi Carvalho, "Title of the Conference Paper," *Conference Name. City of the Conference, Country of the Conference: IEEE, 2022*
- L. V. Beethoven, "Title of Presentation," *Oral Presentation, Dana Knox NJIT, Newark, New Jersey, USA, 2021*

This dissertation is dedicated to ...

ACKNOWLEDGMENT

Spell “acknowledgment” with or without “e” between “g” and “m”; both are acceptable.

Begin with the advisor and then committee members.

Recognize sources of financial support next (this includes TA, RA or Fellowships).

Identify scientific or other technical support.

Recognize friends/students and working colleagues (using full names).

Use correct full spelling of names and consistent capitalization.

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m	Mass in kilograms

Greek

ORDER ALPHABETICALLY (optional)

α	Significance level for t-test

λ	Light wavelength

LIST OF ABBREVIATIONS

ORDER ALPHABETICALLY (optional)

FEM	Finite Element Method

IRB Institutional Review Board
IRB Institutional Review Board

CHAPTER 1

CREATING SECTIONS

In this chapter, we show how to create sections and subsections in a chapter. We will also show how to properly name and cite sections and subsections.

1.1 First Section Title

The first letter of each word that comprises the title of the section should be capitalized (First Section Title).

1.2 Section With Extremely Long and Lengthy Title That Does Not Fit On One Line And You Need More Than One Line

The first letter of each word that comprises the title of the section should be capitalized (see code for details). Write your title in `[]` the way you want it to show in your table of content. Write your title in `{}` the way you want it to show in your document.

Next, we will show how to indent. The first paragraph is not indented; the following paragraphs are indented. You should skip indentation when you start a new idea. See below:

This is how you get rid of the indentation.

And this is how you include it.

Now, let's see how to create subsections. Only the first word in the subsection title is capitalized. See below:

1.2.1 Title of first subsection

The first letter of the first word is capitalized (Title of first subsection). Next, we show how to create a subsection title that does not fit on one line.

Here is how to create subsections with long titles that do not fit on one line:

1.2.2 Subsection with extremely long and lengthy title that does not fit on one line and you need more than one line

Write your title in `[]` the way you want it to show in your table of content. Write your title in `{}` the way you want it to show in your document (see code for details).

1.3 Cite Section and Subsection

Use Section with a capital ‘S’ and Subsection with a capital ‘S’ when you are citing a section and a subsection, respectively (even if you are citing in the middle of the sentence). Here are some examples with the correct syntax:

1. According to Section 1.3 ...
2. According to Sections 1.1 and 1.3 ...
3. According to Subsection 1.2.2 ...
4. According to Subsections 1.2.1 and 1.2.2 ...

Here are some *wrong* syntax that you should avoid using:

1. According to section 1.3
2. According to sec 1.3
3. According to sec. 1.3
4. According to sec. (1.3)
5. According to subsection 1.2.2
6. According to subsec 1.2.2
7. According to subsec. 1.2.2
8. According to subsec. (1.2.2)

CHAPTER 2

CREATING EQUATIONS

In this chapter, we show the different ways of writing and citing equations. Here is the first equation:

$$F = ma. \tag{2.1}$$

And here is how we remove the equation number

$$F = ma.$$

Citing an equation follows the syntax below:

“According to Equation (2) ...”

Use Equation with a capital ‘E’ even if you are citing in the middle of the sentence. The equation number should be in parentheses. Here are some *wrong* syntax that you should avoid using:

1. According to equation 2
2. According to eq 2
3. According to Eq 2
4. According to Eq. 2
5. According to equation (2)
6. According to Eq. (2)

If you want to divide your equation into two sub-equations, then you can use the following commands:

$$F_1 = m_1 a_1. \tag{2.2a}$$

$$F_2 = m_2 a_2 . \tag{2.2b}$$

You can now cite these equations as following:

“According to Equations (2.2a) and (2.2b) ...”

CHAPTER 3

CREATING FIGURES

The first word in the caption of the figure should be capitalized and the rest is not. The caption of the figure should end with a period.

3.1 Regular Figure

The figure should be centered and the caption is left aligned. In order to cite a figure, use the following syntax:

[According to Figure 3.1....](#)

[‘F’ in Figure should be capitalized even in the middle of the sentence.](#)



Figure 3.1 Dr. Takuo Aoyagi, inventor of the pulse oximeter.

3.2 Figure With Caption

If the figure contains a source in the caption, then the source should only appear in the text but not in the table of content. [Here is how you do it:](#)



Figure 3.2 Dr. Takuo Aoyagi, inventor of the pulse oximeter.
Source: J. Goodrich, “Takuo Aoyagi, inventor of the pulse oximeter, dies at age 84,” IEEE Spectrum, 2022. [Online]. Available: <https://spectrum.ieee.org/takuo-aoyagi-inventor-of-the-pulse-oximeter-dies-at-age-84>. [Accessed: 20 February 2023].

3.3 Figure With Subplots



(a)



(b)

Figure 3.3 The subplots are atop of each other. (a) Something about subplot a.
(b) Something about subplot b.

3.4 Sideways Figure



(a)



(b)

Figure 3.4 The subplots are next to each other. (a) Something about subplot a.
(b) Something about subplot b.



Figure 3.5 Sideways figure.

CHAPTER 4

NUMBERED PARAGRAPHS AND FOOTNOTES

We can also create numbered paragraphs

1. First sentence First sentence.
2. Second sentence.
3. Third sentence.

Note the spacing in the code.

Or like this

- First sentence First sentence.
- Second sentence.
- Third sentence.

Numbered paragraphs must be single spaced with double space between consecutive paragraphs. The same goes for footnotes.¹

This is how we can cite a random article using BibTeX [1].

¹Write your footnote here.

CHAPTER 5

CHAPTER ABOUT TABLES ALSO CHAPTER NAME IS VERY LENGTHY IT DOES NOT FIT ON ONE PAGE

Below are some examples on how to generate tables with different formats. Tables can be also generated automatically using “LaTeX Table Editor” available online.

NOTE: No “.” is needed at the end of the table title.

5.1 Regular Tables

Table 5.1 Title Table Must Be All Capitalized

Item 1	Description about Item 1. The description should be in single space.
Item 2	Description about Item 2.

5.2 Special Table I

Table 5.2 Special Table One

	X1	X2	X2	X3
Text 1	a_1	Blue	X	sensor data 1
Text 2	a_2	Red	Y	sensor data 2
	a_3	Orange	Z	sensor data 3

5.3 Special Table II

Table 5.3 Special Table Two With Footnotes

Participants	Metric Calculated for Methods		
	Method 1 ¹	Method 2 ²	Method 3 ³
Participant 1	1	2	3
Participant 2	1	<u>2</u>	3
Participant 3	1	2	3

¹ You can put some information about method 1. We used a different color to make the superscript standout. The footnote should be single spaced.

² You can put some information about method 2. The footnote should be single spaced.

³ You can put some information about method 3. The footnote should be single spaced.

REFERENCES

- [1] L. V. Beethoven, W. A. Mozart, and F. Chopin, "Title of the Journal Article," *Imaginary Journal of Music*, vol. 1, no. 1, pp. 1–10, 1800.