



LATEX THESIS TEMPLATE: AN UNOFFICIAL VERSION

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AUTHOR NAME

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A THESIS SUBMITTED TO
VIDYASIRIMEDHI INSTITUTE OF SCIENCE AND TECHNOLOGY
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE DEGREE OF DOCTOR OF PHILOSOPHY
IN INFORMATION SCIENCE AND TECHNOLOGY

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2023

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Title:	L<small>A</small>T<small>E</small>X Thesis Template: An Unofficial Version
Advisor:	Asst. Prof. Dr. Advisor Name
Name:	Mr. Author Name
Program:	Doctor of Philosophy Program in Information Science and Technology (International Program)
Examination Date 10 October 2023	

Vidyasirimedhi Institute of Science and Technology approved this thesis as a partial fulfillment of the requirements for the degree of Doctor of Philosophy in Information Science and Technology.

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Examination Committee:

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..... Chairperson
(Asst. Prof. Dr. Committee Member 1)

..... Member
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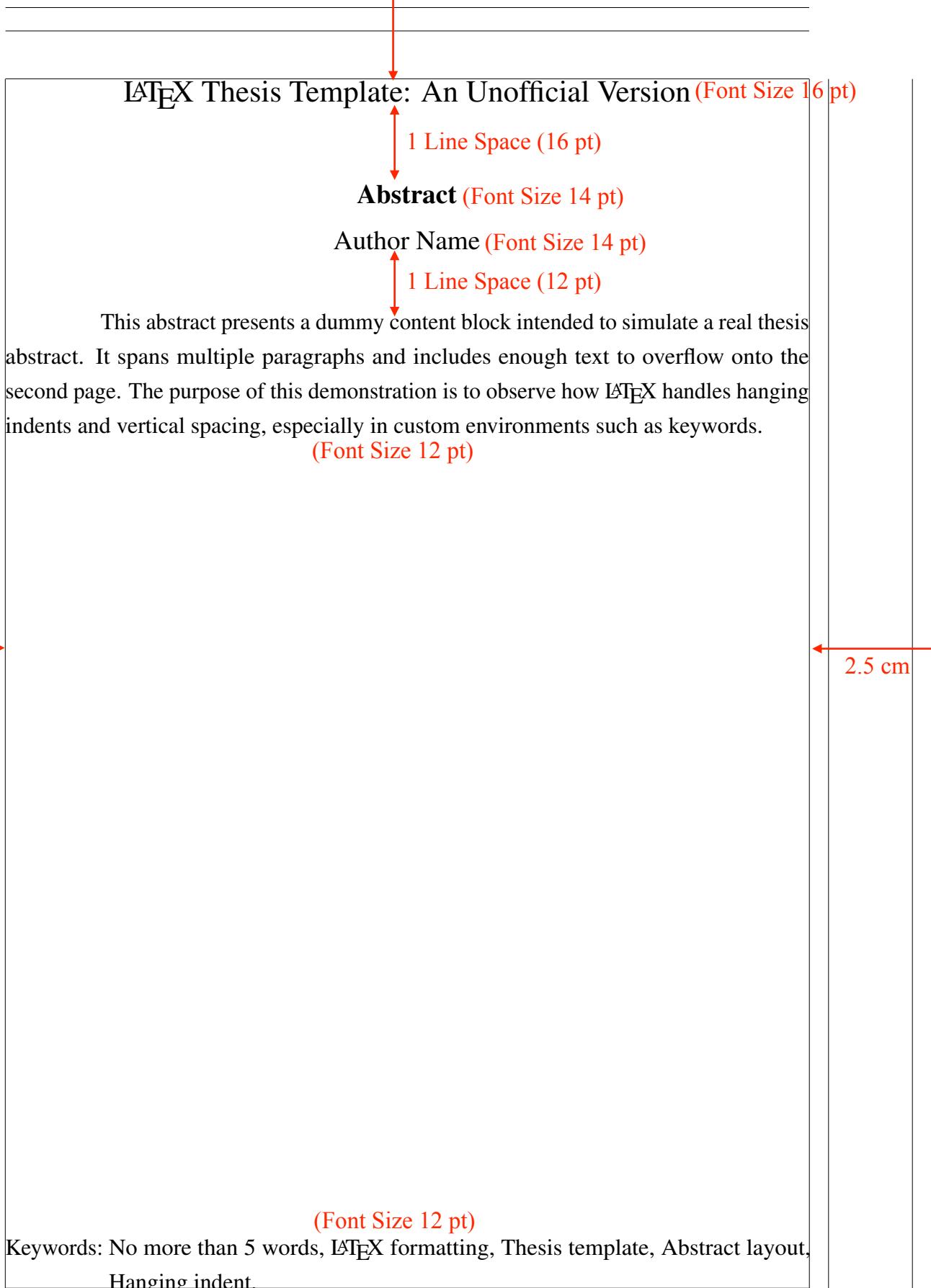
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(Dr. Committee Member 5)

.....
(Prof. Dr. Pimchai Chaiyen)

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Graduate Studies Committee

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Acknowledgment (Font Size 16 pt)

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I would like to express my sincere gratitude to everyone who has supported me throughout this journey.

First and foremost, I am deeply thankful to my advisor, Dr. Jane Smith, for her invaluable guidance, constructive feedback, and constant encouragement. Her mentorship has been instrumental in shaping both the direction of this research and my development as a researcher.

I am also grateful to the members of the Computational Intelligence Lab for the stimulating discussions, technical assistance, and collaborative spirit that made every challenge more manageable and every success more rewarding.

Special thanks to my friends and colleagues, whose humor, advice, and moral support helped me maintain perspective during stressful times.

Lastly, I owe my deepest appreciation to my family for their unwavering belief in me. Their love and patience provided the foundation that carried me through the ups and downs of graduate life.

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This work would not have been possible without all of you.

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Author Name

10 October 2023

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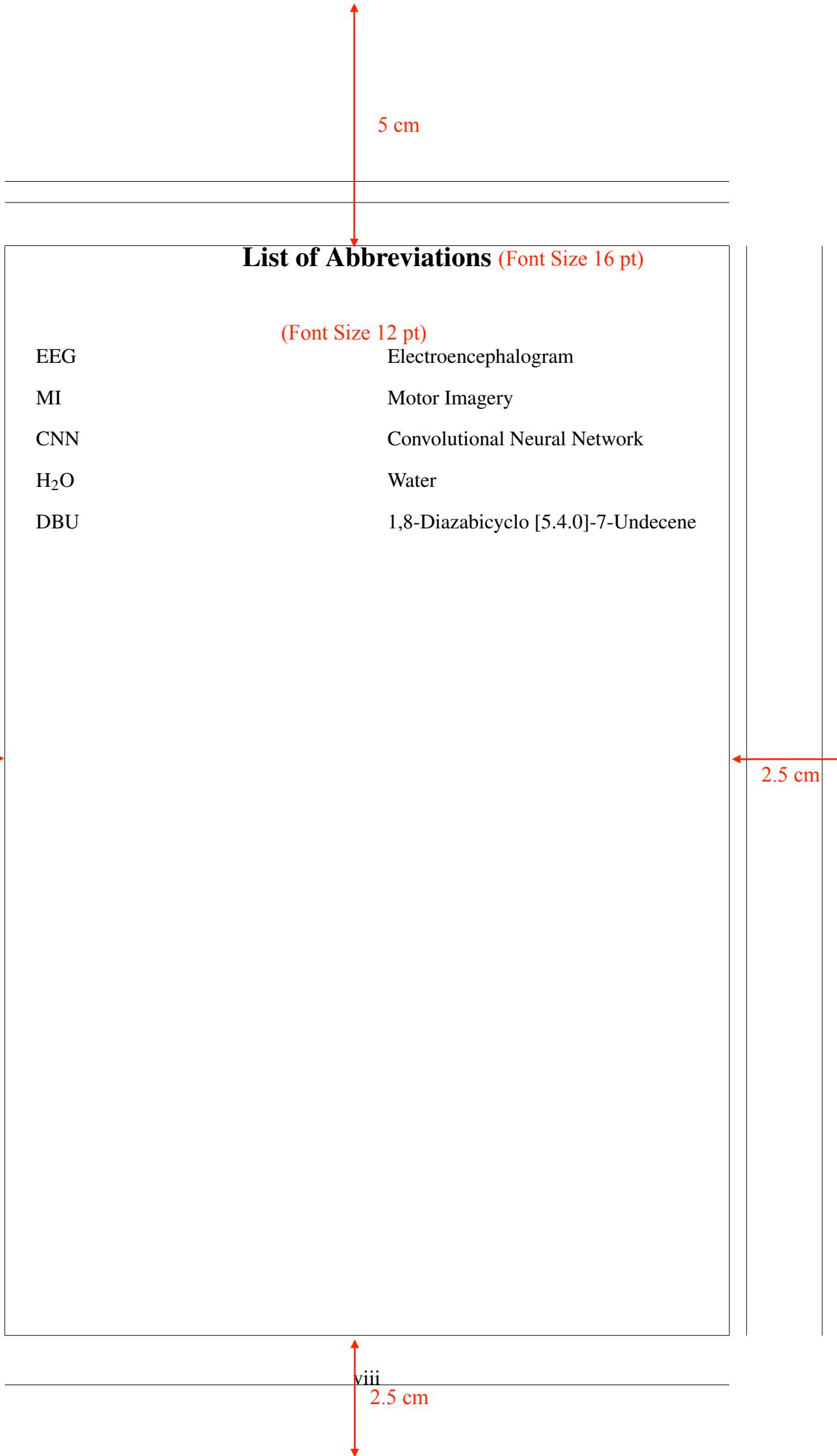
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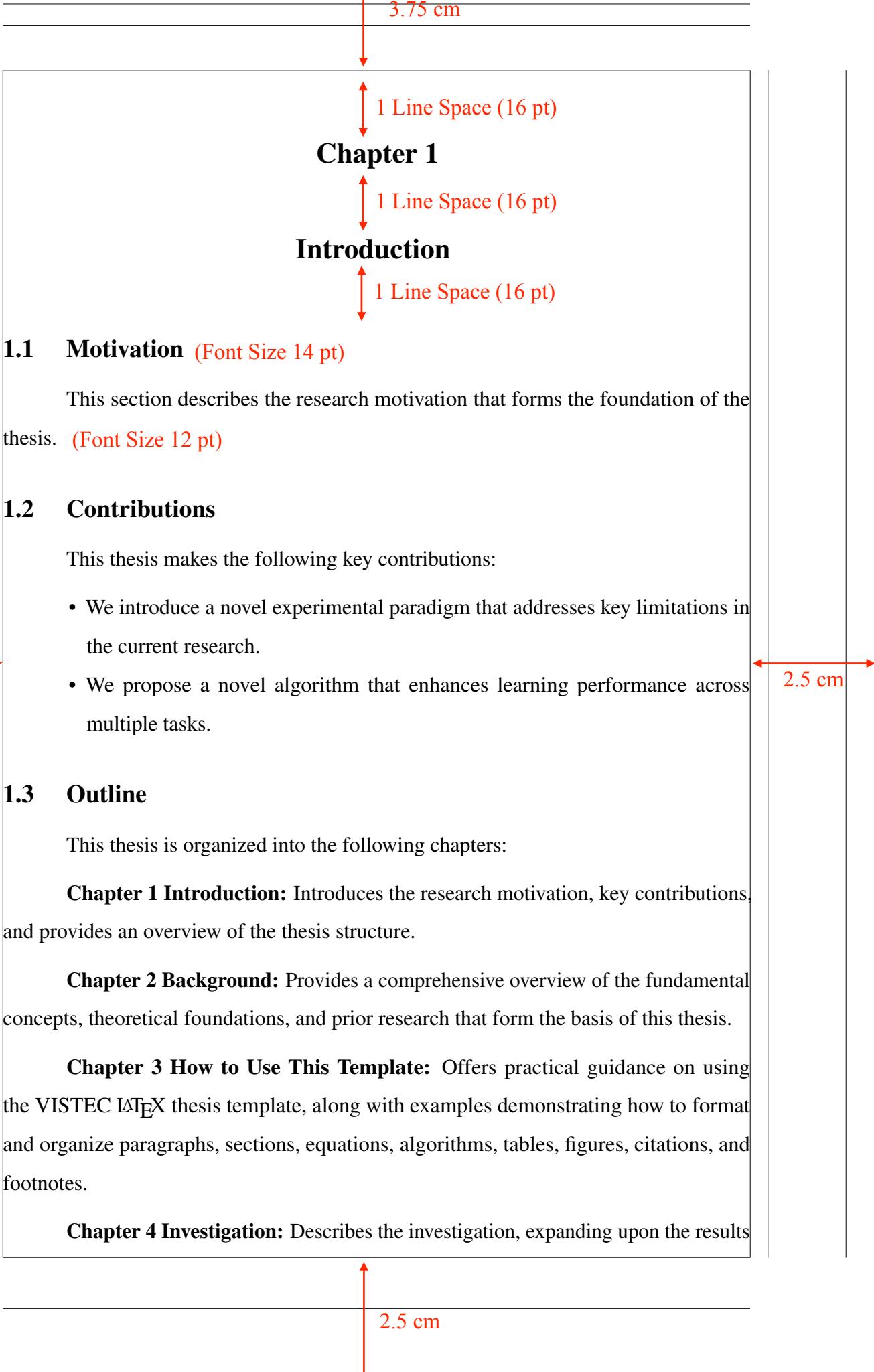
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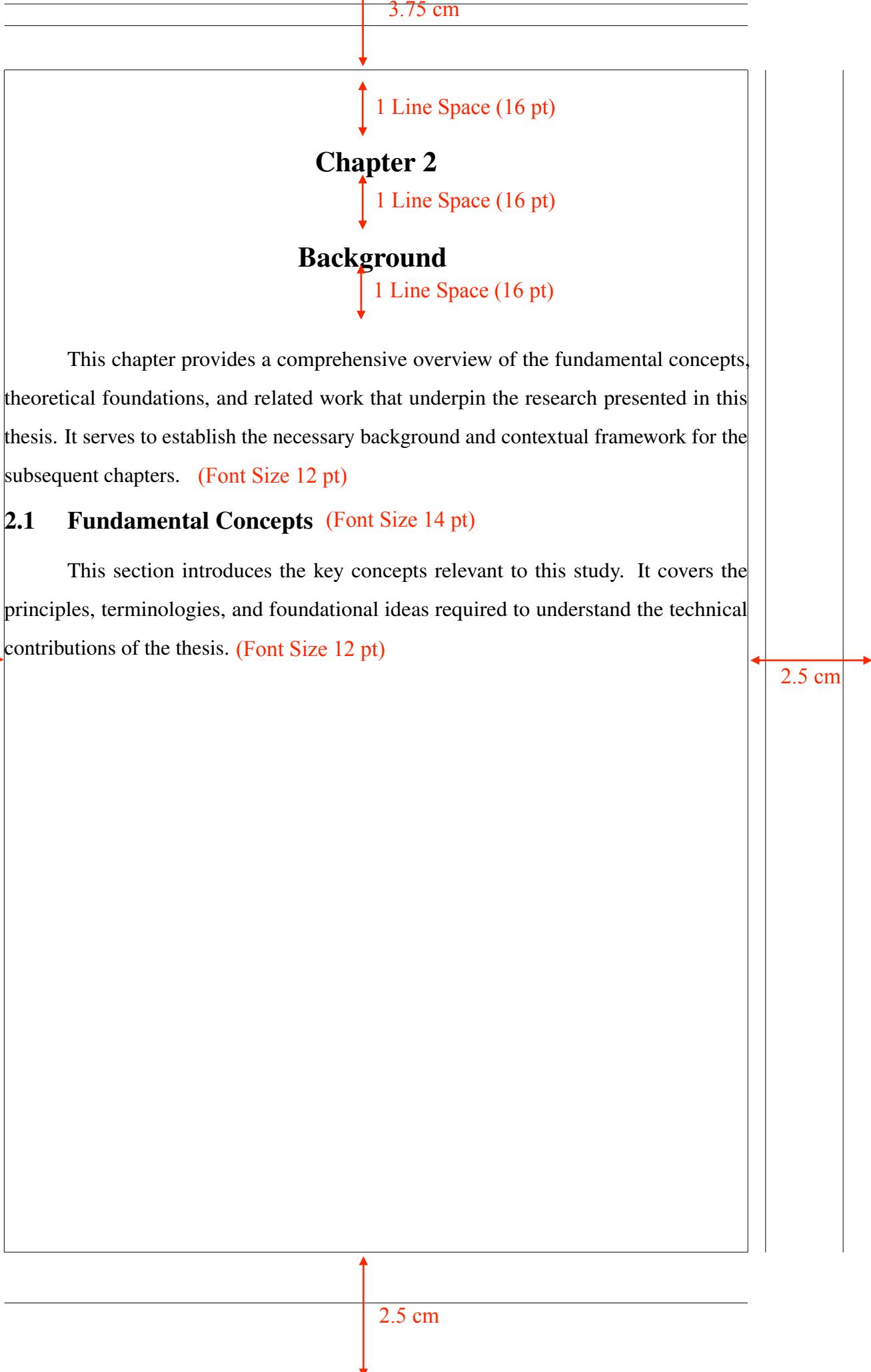


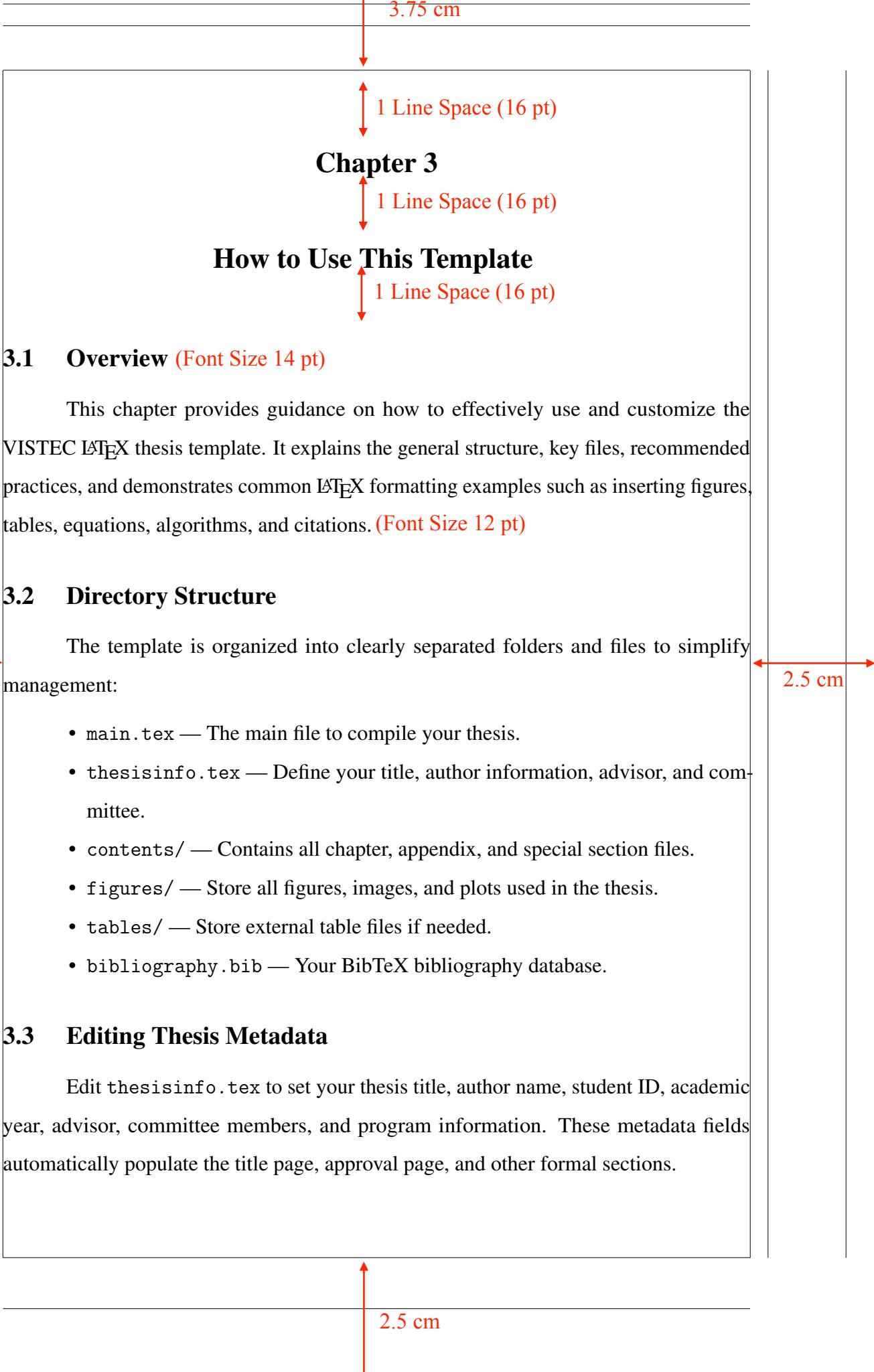
and analysis from the previous study to validate the proposed approaches.

Chapter 5 Conclusion: Summarizes the major findings, discusses their implications, and suggests future research directions.

Appendix A Proofs Supporting Investigation: Presents supplementary materials, including detailed proofs, additional results, and extended discussions that support the main chapters.









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3.4 Adding Content to Chapters

Each main chapter (e.g., Introduction, Background, Investigation, Conclusion) should be placed under `contents/` and included using `\include{}` in `main.tex`. You can create additional chapter files following the provided structure, and organize sections, figures, tables, algorithms, and citations inside them.

3.5 How to Use L^AT_EX

If you are new to L^AT_EX, it is recommended to start with basic tutorials to understand fundamental concepts such as document structure, commands, environments, and referencing. A good starting point is the Overleaf online guide available at:

<https://www.overleaf.com/learn>

The Overleaf Learn platform provides comprehensive, beginner-friendly resources covering topics from basic document setup to advanced formatting and bibliography management. Familiarity with these concepts will significantly improve your ability to customize and work efficiently with this thesis template.

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3.6 Compiling the Thesis

Use pdfLaTeX as the compiler. A typical compilation sequence includes:

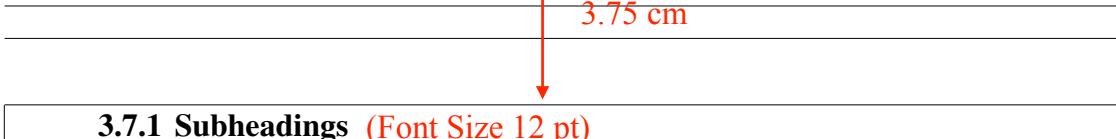
- First, run `pdflatex main.tex` to generate auxiliary files.
- Then, run `bibtex main` to generate the bibliography.
- Finally, run `pdflatex main.tex` twice to resolve cross-references.

Alternatively, tools like `latexmk` or IDEs such as Overleaf, TeXShop, and VS Code with L^AT_EX Workshop can automate this process.

3.7 Basic Formatting Examples

This section illustrates basic L^AT_EX formatting examples for headings, equations, algorithms, tables, figures, citations, and footnotes.

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3.7.1 Subheadings (Font Size 12 pt)

This subparagraph provides an example of text placed under a subsection heading. It serves to introduce and briefly describe the specific content or focus of the subsection. (Font Size 12 pt)

3.7.1.1 Second-Level Subheading (Font Size 12 pt)

This is a subsubparagraph under the second-level subheading. It is typically used for listing or elaborating fine-grained points. (Font Size 12 pt)

- 1) This is the first item in the enumerated list.
- 2) This is the second item in the enumerated list.
- 3) This is the third item in the enumerated list.

3.7.2 Equations

The following is an example of formatting mathematical equations. As illustrated in Equation 3.1, the *Rényi entropy* is defined as:

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$$H_\alpha(X) = \frac{1}{1-\alpha} \log \left(\sum_{x \in X} P[X=x]^\alpha \right). \quad (3.1)$$

3.7.3 Algorithms

Algorithms can be presented using the `algorithmic` package, as shown in Algorithm 3.1.

Algorithm 3.1 An example algorithm with a caption. (Font Size 12 pt)

Require: $n \geq 0$

Ensure: $y = x^n$

```

1:  $y \leftarrow 1$ 
2:  $X \leftarrow x$ 
3:  $N \leftarrow n$ 
4: while  $N \neq 0$  do
5:    $X \leftarrow X \times X$ 
6:    $N \leftarrow \frac{N}{2}$ 
7: end while

```

▷ example comment





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3.7.4 Tables

L^AT_EX table generators, such as TablesGenerator.com, can help you easily create well-formatted tables. See Table 3.1 for an example.

Table 3.1 Classification performance. An asterisk (*) indicates statistically significant results ($p < 0.05$). (Font Size 12 pt)

Comparison Model (Font Size 12 pt)	Subject-independent	
	Accuracy \pm SD	F1-score \pm SD
FBCSP-SVM	64.96 ± 12.70	65.25 ± 15.14
Deep Convnet	68.33 ± 15.33	70.20 ± 15.18
EEGNet-8,2	68.84 ± 13.87	70.39 ± 14.30
Spectral-Spatial CNN	68.27 ± 13.56	65.86 ± 17.37
MIN2Net	$72.03 \pm 14.04^*$	$72.62 \pm 14.14^*$

3.7.5 Figures

Figures can be included using the `graphicx` package. Example shown in Figure 3.1 and Figure 3.2.

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3.7.6 Citations

To cite references, use `\cite{}`, such as [1], or multiple sources like [2–4]. Ensure that the corresponding BibTeX entries are added to the `bibliography.bib` file before citing. Below is an example BibTeX entry:

```
@ARTICLE{dummy2022example,  
author = {Doe, John and Smith, Jane and Roe, Richard},  
journal = {Journal of Example Studies},  
title = {A Dummy Title for Demonstration Purposes},  
year = {2022},  
volume = {42},  
number = {1},  
pages = {1--10}  
}
```



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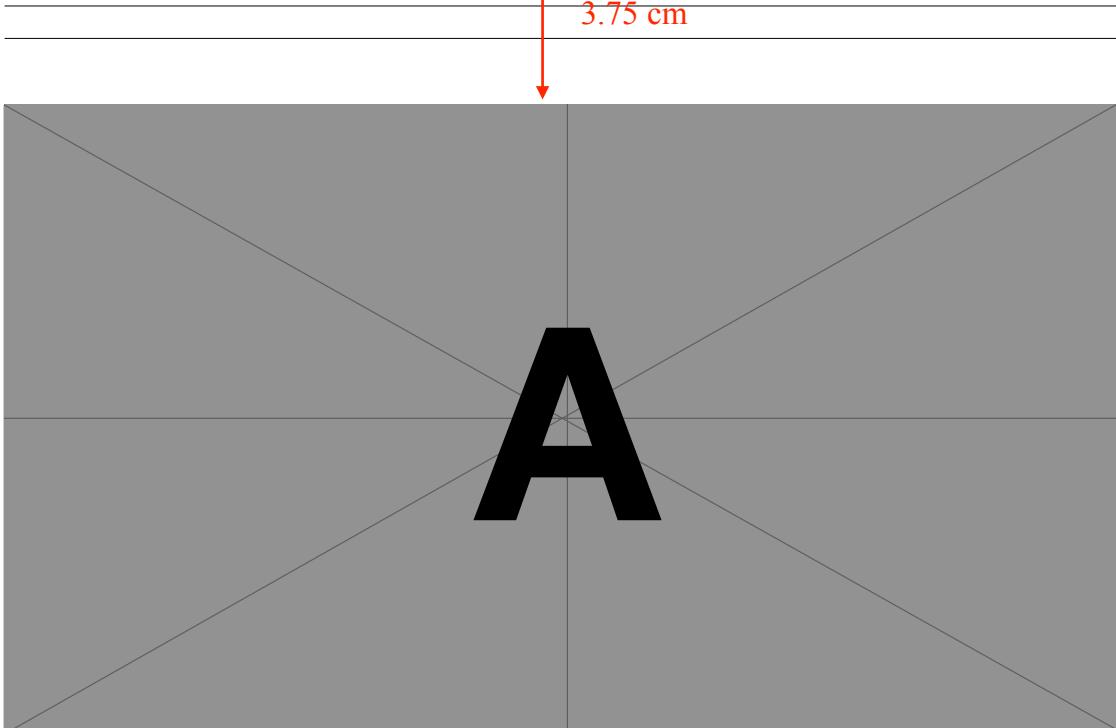


Figure 3.1 Example figure with long caption. This figure demonstrates how to include a standard image (e.g., PDF, PNG, JPG) into your document. Long captions should be aligned properly. (Font Size 12 pt)

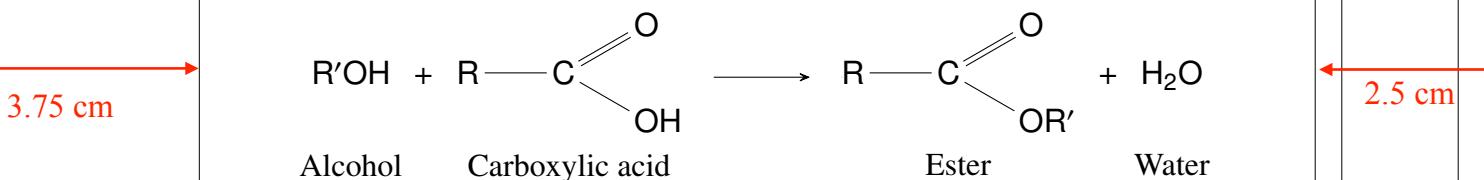
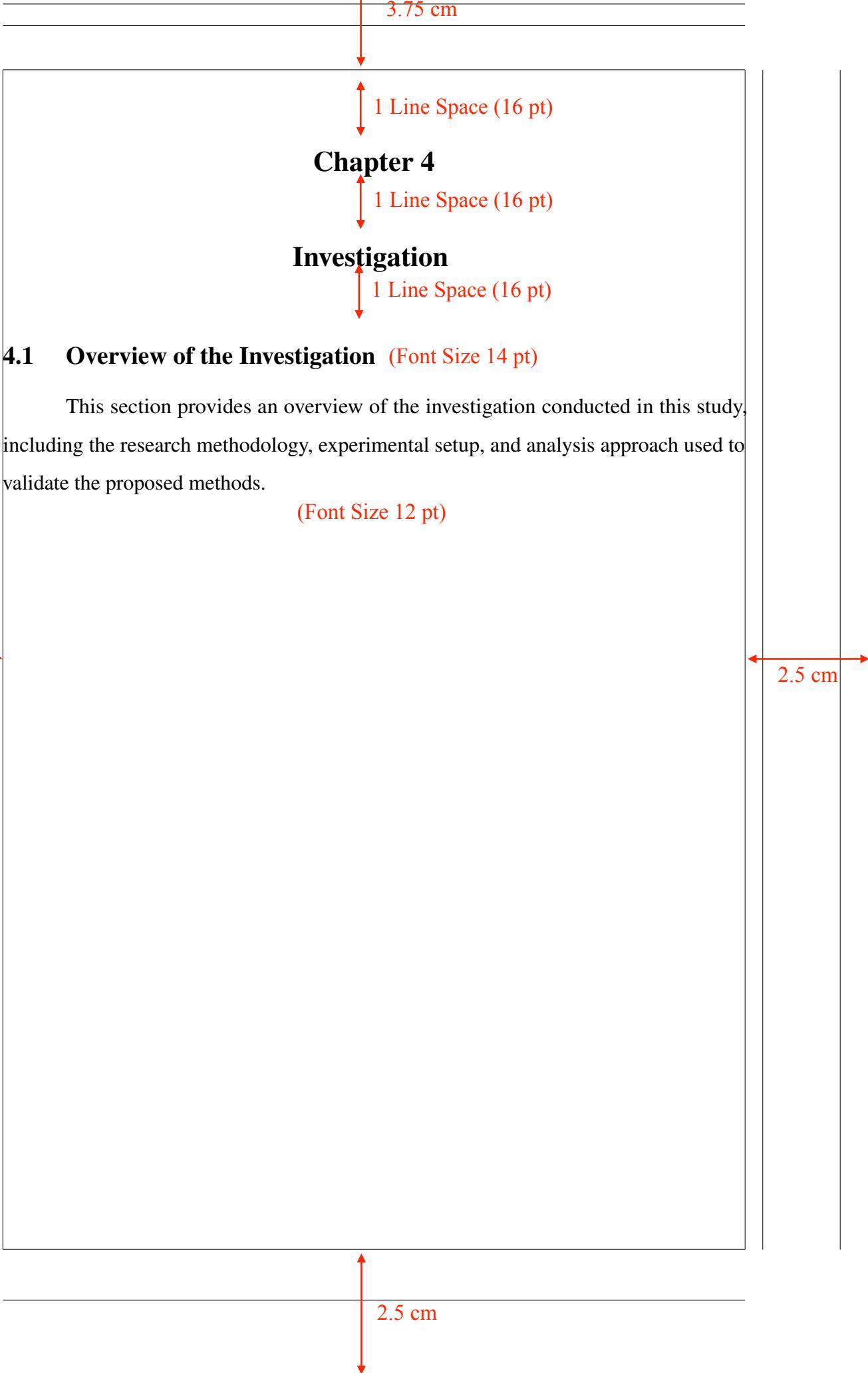


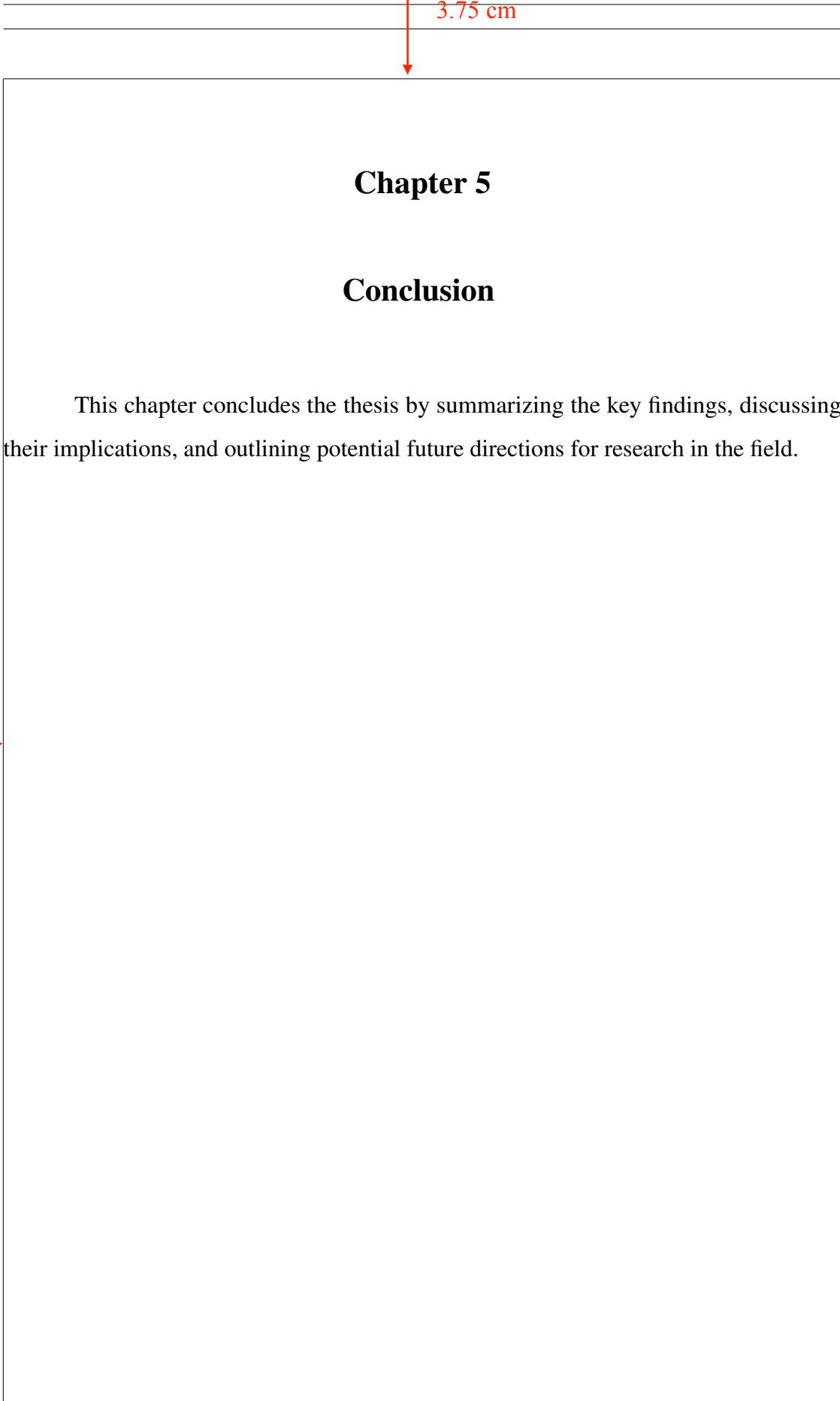
Figure 3.2 An esterification reaction illustrated using the chemfig package.

3.7.7 Footnotes

You can insert a footnote marker using `\footnotemark1` and define the text later with `\footnotetext{Example footnote.}`

¹Example footnote.





This chapter concludes the thesis by summarizing the key findings, discussing their implications, and outlining potential future directions for research in the field.

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References (Font Size 16 pt)

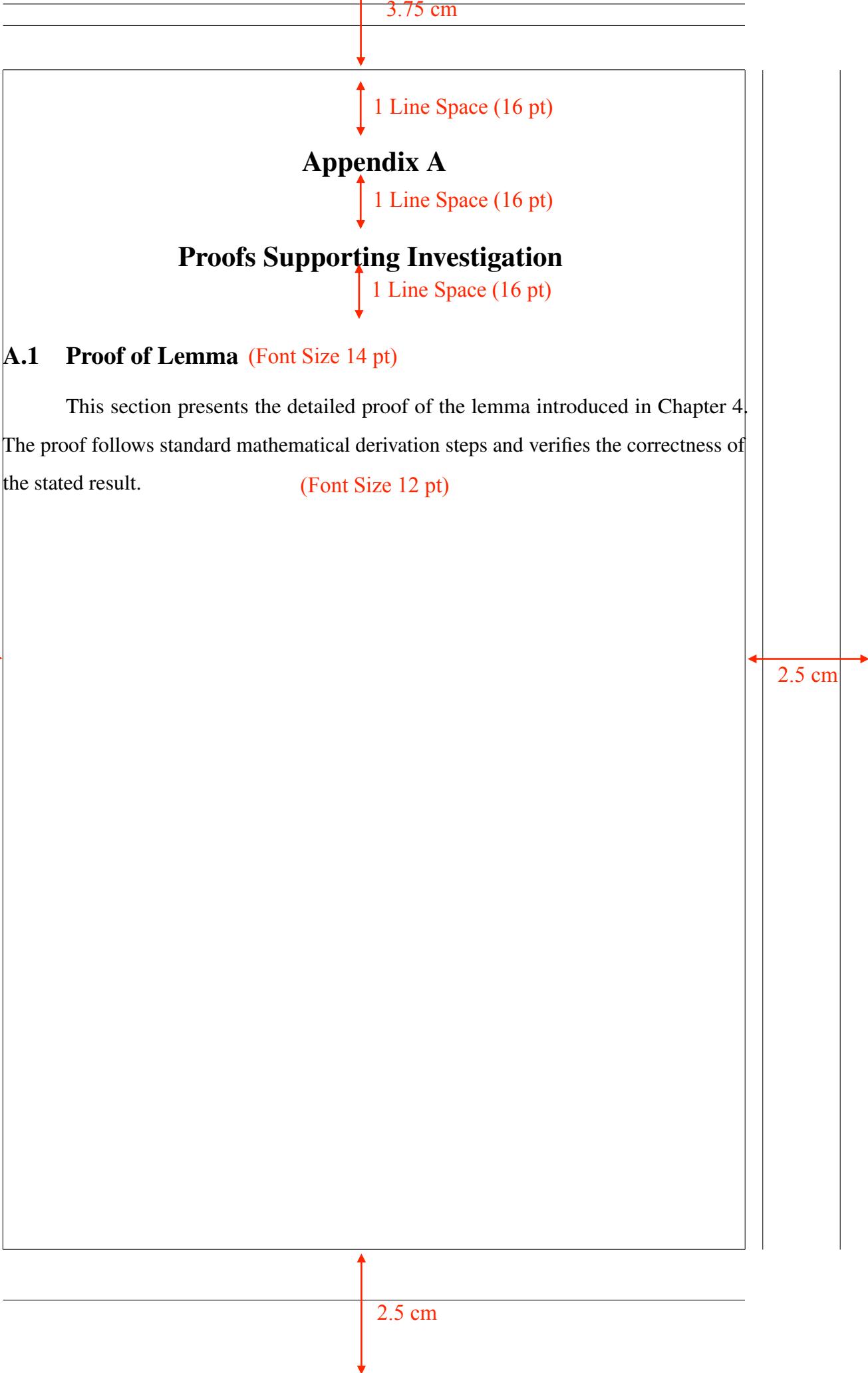
1. Author O, Author T, and Author F. A Placeholder Title for Demonstration Purposes. **Journal of Placeholder Research** 2022;99(9):100–10.
2. Author A and Author B. **A Dummy Book Title for Example Use**. Fictional Press, 1979.
3. Author F, Author B, and Baz A. Simulated Study on EEG Activity in Hypothetical Conditions. **Journal of Experimental Interfaces** 2020;55(8):8888–99.
4. Author O, Author B, and Author G. Sample Article on Deep Learning for EEG. **Journal of Artificial Neuroscience** 2017;12(4):321–40.

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Author's Biography (Font Size 14 pt)	
Name:	(Font Size 12 pt) AUTHOR NAME
Date of Birth:	February 19 th , 1993
Place of Birth:	Bangkok, Thailand
Current Address:	555 Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900
Education:	Bachelor of Science in Computer Science, Lorem Ipsum University, Bangkok, Thailand (2011–2014) Master of Science in Computer Science, Lorem Ipsum University, Bangkok, Thailand (2015–2017)
Scholarship:	Recipient of the full scholarship from Vidyasirimedhi Institute of Science and Technology (VISTEC)
Academic Publication:	Author O, Author T, and Author F. A Placeholder Title for Demonstration Purposes. Journal of Placeholder Research 2022;99(9):100–10. Author O, Author B, and Author G. Sample Article on Deep Learning for EEG. Journal of Artificial Neuro- science 2017;12(4):321–40. Author R, Author O, and Author B. A Sample Confer- ence Paper on Face Recognition. In: Proceedings of the International Conference on Vision Research. 2015:101–10.

