

Thesis/Dissertation Templates

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Abstract

Contents

1	Preface	2
1.1	File Description	2
1.2	Limitations and Bugs	2
2	Hints for Final Edit Stage	2
3	LaTeX Template for Standard Report Class Thesis	3
3.1	Using the Template	3
3.2	Thesis Template	3
3.2.1	Preamble	3
3.2.2	Title Page	4
3.2.3	Copyright, Abstract, and Acknowledgments	5
3.2.4	Contents, Illustrations, Tables and Symbols	5
3.2.5	Body	5
3.2.6	Appendix	5
3.2.7	Back Matter - references and vita	5
3.3	Introduction Template	6
3.4	Chapter Template	7
3.5	Appendix Chapter Template	9
4	LaTeX Template for Publication Thesis Option	11
4.1	Using the Template	11
4.2	Additional Notes and Hints	12
4.3	Thesis Template	12
4.3.1	Preamble	12
4.3.2	Title Page	13
4.3.3	Copyright, Abstract and Acknowledgments	14
4.3.4	Contents, Illustrations, Tables and Symbols	14

4.3.5	Thesis Body	14
4.3.6	Vita	15
4.4	Introduction Template	15

1 Preface

1.1 File Description

Simply L^AT_EX the `ths.ins` file to generate the template files `ptotemplate.tex` and `rpctemplate.tex`, along with its two associated files. This documentation file (`ths.dtx`) can be typeset by running it through L^AT_EX.

1.2 Limitations and Bugs

Added: 2011/11/03 The first page of each individual appendix in a thesis with multiple appendices is not correctly generated in L^AT_EX. At the moment, this would require generating these pages outside of L^AT_EX. The associated class file will need revision in order to make these pages generate with the correct formatting.

Added: 2011/10/24 The co-adviser specification does not work as indicated by the original template. The command must have an error in it as the command desires an argument, but when one is provided, it adds the designation co-adviser to the committee memberone.

Added: 2008/01/23, Resolved: 2011/07/12 At present the `rpctemplate.tex` will not be a function template. This can be developed later on an as needed basis. The intended difference between the two templates is that the `ptotemplate` is a thesis based on the publication option whereas the `rpctemplate` is a thesis based on the report class and not based on separately generated publication- formatted manuscripts.

2 Hints for Final Edit Stage

The last stages of editing a thesis often come down to treating widow and orphan lines. The following are hints for addressing these final issues:

- Use `\enlargethispage{\baselineskip}` command.
- Add a `\newpage` command to force the start of a new page at a specific point.
- L^AT_EX has a parameter for 'penalty' for widows and orphans ('club lines' in L^AT_EX terminology). With the greater penalty L^AT_EX will try more to avoid widows and orphans. You can try to increase these penalties by putting following commands in your document preamble: `\widowpenalty=300\clubpenalty=300`. If this does not help, you can

try increasing these values even more, to a maximum of 10000. However, it is not recommended to set this value too high, as setting it to 10000 forbids LaTeX from doing this altogether, which might result in strange behavior.

- Although I have not tested this, Wikipedia suggests it also helps to have rubber band values for the space between paragraphs: `\setlength{\parskip}{3ex plus 2ex minus 2ex}`

3 L^AT_EX Template for Standard Report Class Thesis

3.1 Using the Template

This template is for a thesis generated as a single report class document.

I have used the `chapter` and `chapter*` commands to produce both chapter titles and titles for the frontmatter and backmatter. In my opinion this is the easiest and most transparent method to produce absolutely uniform type and layout. The thesis style files that I received tried to accomplish this using custom defined commands but the result was not satisfactory, in my opinion. The `chapter*` command produces no numbering, which is in fact true for any of the sectioning commands.

One change which you, as a user, may wish to make is in the relative locations of the files. For L^AT_EX all relative file locations have to be given with respect to the file that will be compiled by L^AT_EX. Thus, if it is desired to have chapter files in sub-directories of the directory containing the base `*.tex` file, the include commands will need to be of a form such as `\include{subdir/foo.tex}`. This same logic also applies to the locations used to specify the `*.eps` files in each of the chapter's `*.tex` files.

The contents of `template.tex` are expected to be rather transparent. The only thing that may be worth further explanation is the use of the `include` and `includeonly` commands instead of `input`. The reason is that the include/includeonly combination allows one to conditionally load the files. This can save time when only one chapter, or portion of the thesis, is being worked on at a given time. The only danger to this approach is that if a given chapter is not part of the include only list, then its impact on pagination, lists of figures, tables, etc will be frozen. A final run with all of the include files part of the includeonly list will ensure a complete document.

3.2 Thesis Template

3.2.1 Preamble

```
(*rpc)
<ps>  -*- mode: LaTeX -*-
<ps> ... preamble ...
\documentclass[times,12pt,titlepage]{msthesis}
```

```

\doublespacing
\usepackage{threeparttable}
\usepackage[final]{graphicx}
\usepackage{psfrag}
\usepackage[noprefix]{nomencl}
\makenomenclature
\renewcommand{\nomgroup}[1]{
  \ifthenelse{\equal{#1}{A}}{\medskip \item \textbf{Roman}}{}%
  \ifthenelse{\equal{#1}{G}}{\medskip \item \textbf{Greek}}{}%
  \ifthenelse{\equal{#1}{S}}{\medskip \item \textbf{Subscripts}}{}%
}

<ps> ... end preamble ...

\begin{document}

```

3.2.2 Title Page

```

<ps> ... specify: ms or phd ...

\begin{ThesisTitlePage}{ms}

<ps> ... title page info ...

\author{\MakeUppercase{I. M. Author}}

\thesistitle{THE TITLE OF MY THESIS}

\department{Mechanical Engineering}

\degree{Doctor of Philosophy}

<ps> ... thesis committee ...

\ThesisAdviser{Galileo}

<ps> If you have a co-advisor, enter the name in the
<ps> curly braces below and uncomment.
<ps> Otherwise, leave commented out.
<ps>\cothadviser{} % If you have 2 thesis advisers

\memberone{Newton}
\membertwo{Copernicus}
\memberthree{Laplace}
\memberfour{Fourier}
\memberfive{}

<ps> ... Graduation date - NOT your submission date ...
\graddate{1685}

```

```
\end{ThesisTitlePage}
```

3.2.3 Copyright, Abstract, and Acknowledgments

```
<ps> ... copyright page - true/false ...
```

```
\copyrightyear{1684}  
\ThesisCopyrightPage{true}
```

```
<ps> ... front matter - thesis abstract ...
```

```
\begin{ThesisAbstract}  
This is my abstract.  
\end{ThesisAbstract}
```

```
<ps> ... front matter - thesis acknowledgements ...
```

```
\begin{ThesisAcknowledgment}  
This dissertation would not have been possible if not for the help  
and encouragement of a number of people.  
\end{ThesisAcknowledgment}
```

3.2.4 Contents, Illustrations, Tables and Symbols

```
\begin{ThesisFrontMatter}  
\tableofcontents  
\listoffigures  
\listoftables  
\listofsymbols  
\end{ThesisFrontMatter}
```

3.2.5 Body

```
\begin{ThesisBody}  
  
<ps> ... chapter 1 - introduction ...  
\input{intro}  
  
<ps> ... chapter 2 ...  
\input{chapter}  
  
\end{ThesisBody}
```

3.2.6 Appendix

```
<ps> ... appendix - specify number of appendix chapters ...  
  
\begin{ThesisAppendix}{one}  
\input{appendix}  
\end{ThesisAppendix}
```

3.2.7 Back Matter - references and vita

```

<ps> ... references - comma separated list of bib files ...

\newpage\bibliographystyle{plainnat}
\bibliography{add.bib}

<ps> ... vita ...

\begin{Vita}
This is my vita. Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Maecenas mauris est, molestie id ultricies at, laoreet vitae
diam. Nunc dolor. Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Nullam nec turpis sed ante molestie mollis sed non eros. Sed
ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
molestie Aenean pharetra neque et augue scelerisque rutrum.
Pellentesque hendrerit tellus at felis semper semper.
\end{Vita}

\end{document}
</rpc>

```

3.3 Introduction Template

```

<*rpcintro>

%%<ps> ... introduction ...

\chapter{Introduction}

This is my introduction. Figure~\ref{fig:fig00} %
\begin{figure}[tb]
  \psfrag{x}{{$x$}}
  \psfrag{y}{{$y$}}
  \begin{center}
    \includegraphics[width=3.75in]{simple.eps}
  \end{center}
  \caption{The caption of the figure made extra long so that the
    required spacing in the list of figures is evident.}
\label{fig:fig00}
\end{figure}
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas
mauris est, molestie id ultricies at, laoreet vitae diam. Nunc
dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Nullam nec turpis sed ante molestie mollis sed non eros. Sed
ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
molestie Aenean pharetra neque et augue scelerisque rutrum.
Pellentesque hendrerit tellus at felis semper semper.

</rpcintro>

```

3.4 Chapter Template

```
(*rpcchap)

%%<ps> ... sample chapter ...

\chapter{Sample Chapter}

\section{Introduction}

Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Maecenas mauris est, molestie id ultricies at,
laoreet vitae diam. Nunc dolor. Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Nullam nec turpis sed ante molestie
mollis sed non eros. Sed ultricies risus sit amet tellus
ullamcorper volutpat. Duis semper urna ut nunc vehicula non mattis
nibh feugiat. Maecenas mauris est, molestie Aenean pharetra neque
et augue scelerisque rutrum. Pellentesque hendrerit tellus at felis
semper semper.

% ... formulation ...

\section{Problem Formulation Section Heading Which is Really Long So
It Produces a Two-Line Toc Entry}%
\label{sec:formulation}

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas
mauris est, molestie id ultricies at, laoreet vitae diam. Nunc
dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Nullam nec turpis sed ante molestie mollis sed non eros. Sed
ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
molestie Aenean pharetra neque et augue scelerisque rutrum.
Pellentesque hendrerit tellus at felis semper semper.

\subsection{Governing Equations}

This is my simple equation
\begin{equation}
\delta_i = \sqrt{t/\mathrm{Pe}}
\end{equation}
where  $\delta$  is the thermocline
thickness %
\nomenclature[at]{$t$}{time}%
\nomenclature[gd]{$\delta$}{thermocline thickness}%
\nomenclature[si]{$i$}{inlet}%
defined previously by \citep{bullwinkle:1990} and \citet{bullwinkle:1991}.
Figure~\ref{fig:fig01} %
\begin{figure}[tb]
\psfrag{x}{$x$}
```

```

\psfrag{y}{\$y\$}
\begin{center}
\includegraphics[width=3.75in]{simple.eps}
\end{center}
\caption{The caption of the figure made extra long so that the
required spacing in the list of figures is evident.}
\label{fig:fig01}
\end{figure}
and some filler content, followed by Figure~\ref{fig:fig02}. %
\begin{figure}[tb]
\psfrag{x}{\$x\$}
\psfrag{y}{\$y\$}
\begin{center}
\includegraphics[width=3.75in]{simple.eps}
\end{center}
\caption{The caption of the figure made extra long so that the
required spacing in the list of figures is evident.}
\label{fig:fig02}
\end{figure}
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas
mauris est, molestie id ultricies at, laoreet vitae diam. Nunc
dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Nullam nec turpis sed ante molestie mollis sed non eros. Sed
ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
molestie Aenean pharetra neque et augue scelerisque rutrum.
Pellentesque hendrerit tellus at felis semper semper. Lorem ipsum
dolor sit amet, consectetur adipiscing elit. Maecenas mauris est,
molestie id ultricies at, laoreet vitae diam. Nunc dolor. Lorem ipsum
dolor sit amet, consectetur adipiscing elit. Nullam nec turpis sed
ante molestie mollis sed non eros. Sed ultricies risus sit amet
tellus ullamcorper volutpat. Duis semper urna ut nunc vehicula non
mattis nibh feugiat. Maecenas mauris est, molestie Aenean pharetra
neque et augue scelerisque rutrum. Pellentesque hendrerit tellus at
felis semper semper. Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Maecenas mauris est, molestie id ultricies at,
laoreet vitae diam. Nunc dolor. Lorem ipsum dolor sit amet,
consectetur adipiscing elit. Nullam nec turpis sed ante molestie
mollis sed non eros. Sed ultricies risus sit amet tellus ullamcorper
volutpat. Duis semper urna ut nunc vehicula non mattis nibh feugiat.
Maecenas mauris est, molestie Aenean pharetra neque et augue
scelerisque rutrum. Pellentesque hendrerit tellus at felis semper
semper.

Finally the tables, Tables~\ref{tbl:tbl01} and \ref{tbl:tbl02} %
\begin{table}[tb]
\caption{THE CAPTION OF THE TABLE USES CAPITAL LETTERS.}
\label{tbl:tbl01}
\begin{center}
\begin{tabular}{c l l}

```



```

\hline
Example & Time & Cost \\
\hline
1 & 12.5 & \$1,000 \\
2 & 24 & \$2,000 \\
\hline
\end{tabular}
\end{center}
\end{table}
should appear in the order of their citation and should
\begin{table}[tb]
\begin{threeparttable}
\caption{THE CAPTION OF THE TABLE USES CAPITAL LETTERS.}
\label{tbl:tbl02}
\begin{center}
\begin{tabular*}{\textwidth}{c 1 l} % or {tabular}
\hline
Example & Time\tnote{1} & Cost \\
\hline
1 & 12.5 & \$1,000 \\
2 & 24 & \$2,000 \\
\hline
\end{tabular*}
\end{tabular*}
\begin{tablenotes}
\item [1] The first note.
\end{tablenotes}
\end{center}
\end{threeparttable}
\end{table}
generally appear at the top of the page in a final manuscript.
Journal manuscripts submitted for review should generally have the
floats appearing at the end of the overall document.

% ... results ...

\section{Results and Discussion} \label{sec:results}

```

`</rpcchap>`

3.5 Appendix Chapter Template

`<*rpcappx>`

`%%<ps> ... sample chapter ...`

```

\chapter{Appendix}
%\addcontentsline{toc}{chapter}{Appendix}

\section{Introduction}

```

Lorem ipsum dolor sit amet, consectetur
 adipiscing elit. Maecenas mauris est, molestie id ultricies at,
 laoreet vitae diam. Nunc dolor. Lorem ipsum dolor sit amet,
 consectetur adipiscing elit. Nullam nec turpis sed ante molestie
 mollis sed non eros. Sed ultricies risus sit amet tellus
 ullamcorper volutpat. Duis semper urna ut nunc vehicula non mattis
 nibh feugiat. Maecenas mauris est, molestie Aenean pharetra neque
 et augue scelerisque rutrum. Pellentesque hendrerit tellus at felis
 semper semper.

% ... formulation ...

\section{Problem Formulation}%
 \label{sec:formulation}

Lorem ipsum dolor sit amet, consectetur
 adipiscing elit. Maecenas mauris est, molestie id ultricies at,
 laoreet vitae diam. Nunc dolor. Lorem ipsum dolor sit amet,
 consectetur adipiscing elit. Nullam nec turpis sed ante molestie
 mollis sed non eros. Sed ultricies risus sit amet tellus
 ullamcorper volutpat. Duis semper urna ut nunc vehicula non mattis
 nibh feugiat. Maecenas mauris est, molestie Aenean pharetra neque
 et augue scelerisque rutrum. Pellentesque hendrerit tellus at felis
 semper semper.

\subsection{Governing Equations}

This is my simple equation

\begin{equation}
 \delta_i = \sqrt{t/\mathrm{Pe}}
 \end{equation}

where δ is the thermocline

thickness defined previously by \citep{bullwinkle:1990} and

\citet{bullwinkle:1990} and some filler content.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas
 mauris est, molestie id ultricies at, laoreet vitae diam. Nunc
 dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 Nullam nec turpis sed ante molestie mollis sed non eros. Sed
 ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
 urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
 molestie Aenean pharetra neque et augue scelerisque rutrum.
 Pellentesque hendrerit tellus at felis semper semper. Lorem ipsum
 dolor sit amet, consectetur adipiscing elit. Maecenas mauris est,
 molestie id ultricies at, laoreet vitae diam. Nunc dolor. Lorem ipsum
 dolor sit amet, consectetur adipiscing elit. Nullam nec turpis sed
 ante molestie mollis sed non eros. Sed ultricies risus sit amet
 tellus ullamcorper volutpat. Duis semper urna ut nunc vehicula non
 mattis nibh feugiat. Maecenas mauris est, molestie Aenean pharetra
 neque et augue scelerisque rutrum. Pellentesque hendrerit tellus at
 felis semper semper. Lorem ipsum dolor sit amet, consectetur

adipiscing elit. Maecenas mauris est, molestie id ultricies at, laoreet vitae diam. Nunc dolor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam nec turpis sed ante molestie mollis sed non eros. Sed ultricies risus sit amet tellus ullamcorper volutpat. Duis semper urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est, molestie Aenean pharetra neque et augue scelerisque rutrum. Pellentesque hendrerit tellus at felis semper semper.

`</rpcappx>`

4 L^AT_EX Template for Publication Thesis Option

4.1 Using the Template

The steps in using the Publication Thesis Option template are the following

1. In each `ppr.tex` file, change the class options in the `\documentclass` command to `\documentclass[times,thesis]{journal}` where *journal* is the name of the journal the paper formatted for. Once the class options have been changed, re-make the file. This should produce a postscript file with margins and pagination obeying the thesis requirements.
2. In each `ppr.tex` file, add the following command `\setcounter{page}{x}` immediately following the `\begin{document}` command, where *x* is the starting page number for the corresponding paper. Now re-make each of the `ppr.tex` files. The result should be a thesis body with each of the papers constituting it numbered consecutively.
3. Edit the `thesis.tex` template by entering the correct paper names and so on. Compile the thesis template with the `make` command. Make sure the pagination for the table of contents entries with the thesis body are correct. Note that in the template, the `setcounter` command will need to be issued with the correct page number corresponding to each individual paper.
4. Add (or uncomment) the `\nofiles` command to the template immediately preceding the `\begin{document}` command. This command prevents L^AT_EX from writing any changes to the `.toc`, `.lof`, `.lot` files.
5. Add the entire contents from each `ppr.lof` and `ppr.lot` to the corresponding template `.lof` or `.lot` file, at the appropriate place in these files. Then recompile the template and be sure the the list of figures and list of tables entries generated are correct.
6. Now, go back to the individual `ppr.tex` files and add the `\tableofcontents` command to each and re-make them. Now copy the contents of each of these individual `.toc` files to the `.toc` file of the thesis template. Re-make the thesis.

7. Print out the `ppr.ps` files and the `thesis.ps` files, put them in order and you have a complete thesis.

4.2 Additional Notes and Hints

- If the bibliography in an individual entry needs to be edited directly, edit the `ppr.bbl` file but make sure not to re-run the bibtex command because otherwise the changes will be overwritten.
- The `nofiles` command cannot be used in the individual `ppr.tex` files since otherwise the nomenclature is not generated.
- In the thesis list of tables and list of illustrations, only an abbreviated caption should appear. This can be accomplished by editing the `.lof` and `.lot` files. Preferably, however, it can be accomplished by using the following form of the caption command: `\caption[lst_entry]{heading}` where `lst_entry` is the abbreviated entry which is to appear in the list of figures or tables. This can be the first sentence of the extended caption or an even more abbreviated version.
- The individual entries in the list of figures and tables for each paper must be set off by the following `\noindent\mbox{PAPER 1\hfill}\nopagebreak`. This should be added to the `.lot` and `.lof` files.
- The block of entries the `.toc` must also be set off by a command identical to the above. In addition, this should be preceded by `\addvspace{\baselineskip}`.
- The list of figures and tables must also have single-spaced entries with doublespacing between the entries. A way to accomplish this is to put the `\singlespacing` command as the second line of the `.lot` and `.lof` files and add, immediately in front of each `contentsline` command, the following: `\addvspace{\baselineskip}`. This same command will need to be added in front of each of the above `Paper x` commands so that there is a blank line between the last entry of one paper and the line that says `Paper x+1`.
- The entries in the table of contents must also be single spaced for each entry and double-spaced between. However, it is easier to just let the table of contents be double-spaced and then put an individual table of contents inside a `singlespacing` environment, if it requires more than one line.

4.3 Thesis Template

4.3.1 Preamble

The preamble is ended by the `\begin{document}` command.

```
(*pto)
<ps> mode: LaTeX --
```

```

<ps> ... preamble ...
\documentclass[times,12pt,titlepage]{mstthesis}
\doublespacing

\usepackage{fancyhdr}
\pagestyle{fancy}
\lhead{}\chead{}\rhead{\thepage}
\lfoot{}\cfoot{}\rfoot{}
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}

<ps> ... uncomment after editing toc, lof, lot ...

<ps>\nofiles

<ps> ... end preamble ...

\begin{document}

<ps> ... rcsInfo access to the Revision Control Scheme (RCS) data ...

\rcsInfo $Id: ths.dtx,v 2.6 2011/11/03 14:24:50 khoman Exp khoman $

```

4.3.2 Title Page

```

<ps> ... specify: ms / phd ...

\begin{ThesisTitlePage}{ms}

\author{\MakeUppercase{I. M. Author}}

\thesistitle{THE TITLE OF MY THESIS}

\department{Mechanical Engineering}

\degree{Doctor of Philosophy}

<ps> ... thesis committee ...

\ThesisAdviser{Galileo}

<ps> If you have a co-advisor, enter the name in the
<ps> curly braces below and uncomment.
<ps> Otherwise, leave commented out.
<ps>\cothadviser{} % If you have 2 thesis advisers

\memberone{Newton}
\membertwo{Copernicus}

```

```

\memberthree{Laplace}
\memberfour{Fourier}
\memberfive{}

<ps> ... Graduation date. NOT your submission date! ...
\graddate{1685}

\end{ThesisTitlePage}

```

4.3.3 Copyright, Abstract and Acknowledgments

```

<ps> ... copyright page - true/false ...

\copyrightyear{1684}
\ThesisCopyrightPage{false}

<ps> ... front matter - publication option - ms/phd...

\begin{ThesisPublicationOption}{phd}
This thesis or dissertation has been prepared in the form of three papers.
\end{ThesisPublicationOption}

<ps> ... front matter - thesis abstract ...

\begin{ThesisAbstract}
This is my abstract.
\end{ThesisAbstract}

<ps> ... front matter - acknowledgements ...

\begin{ThesisAcknowledgment}
This dissertation would not have been possible if not for the help
and encouragement of a number of people.
\end{ThesisAcknowledgment}

```

4.3.4 Contents, Illustrations, Tables and Symbols

```

<ps> ... toc, lof, and lot (list of symbols in respective papers) ...
\begin{ThesisFrontMatter}
\tableofcontents
\listoffigures
\listoftables
\end{ThesisFrontMatter}

```

4.3.5 Thesis Body

```

<ps> ... chapter 1 - introduction ...
\begin{ThesisBody}

\input{intro}

```

```

\end{ThesisBody}

<ps> ... thesis publications ...

\begin{ThesisPublications}
\PaperManuscript{1}{MY FIRST PAPER TITLE}
\PaperManuscript{2}{MY SECOND PAPER TITLE}
\PaperManuscript{3}{MY THIRD PAPER TITLE}
\end{ThesisPublications}

```

4.3.6 Vita

```

<ps> ... vita ...

\begin{Vita}
This is my vita. Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Maecenas mauris est, molestie id ultricies at, laoreet vitae
diam. Nunc dolor. Lorem ipsum dolor sit amet, consectetur adipiscing
elit. Nullam nec turpis sed ante molestie mollis sed non eros. Sed
ultricies risus sit amet tellus ullamcorper volutpat. Duis semper
urna ut nunc vehicula non mattis nibh feugiat. Maecenas mauris est,
molestie Aenean pharetra neque et augue scelerisque rutrum.
Pellentesque hendrerit tellus at felis semper semper.
\end{Vita}

<ps> ... end document ...

\end{document}
</pto>

```

4.4 Introduction Template

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<*ptointro>

%%<ps> ... introduction ...

\chapter{Introduction}

This is my introduction. Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Maecenas mauris est, molestie id ultricies at,
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Maecenas mauris est, molestie Aenean pharetra neque et augue
scelerisque rutrum. Pellentesque hendrerit tellus at felis semper
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</ptointro>