src/thesis.tex

```latex
 1  \documentclass[a5paper,9pt]{book}      %
 2  \usepackage[utf8]{inputenc}                % for input
    encoding
 3  \usepackage{amsmath,amsfonts,amssymb}  % for
    mathematical symbols and fonts
 4  \usepackage{tcolorbox}
 5  \usepackage{caption}     % Package for better captions
 6  \usepackage{eso-pic}      % Allows adding elements to
    the page background
 7  \usepackage{graphicx}     % For including images
 8  \usepackage{afterpage}    % To control background images
    after specific pages
 9
10  \usepackage{listings}
11  \lstset{
12      language=Python,         % Set language to Python
13      showstringspaces=false  % Prevent spaces from being
    printed as visible characters
14  }
15
16  \usepackage[a5paper, margin=0cm]{geometry} % for page
    layout
17  \usepackage{natbib}                        % for
    bibliography management
18  \usepackage{setspace}                      % for
    controlling line spacing
19  \usepackage{xcolor}
20  \usepackage{fancyhdr}  % For custom headers and footers
21  \usepackage{microtype}       % Improves justification
    and spacing
22
23  \usepackage[colorlinks=false, linktoc=all]{hyperref}
24  \usepackage{footnotebackref}
25  \usepackage[hang, flushmargin]{footmisc}
26  \usepackage[english]{babel}
```

```latex
\pagestyle{fancy}        % Set the page style to fancy
\fancyhf{}               % Clear all header and footer
fields
\fancyhead[LE,RO]{\thepage} % Page numbers on the outer
side
\fancyhead[LO,RE]{\nouppercase{\leftmark}} % Chapter
titles in headers

% Define colors
\definecolor{comment}{rgb}{0.0, 0.5, 0.0} % A darker
green
\definecolor{white}{rgb}{1.0, 1.0, 1.0}

\geometry{
    a5paper,           % Set the paper size to A5
    inner=15mm,        % Inner margin for binding
(reduced from 25mm)
    outer=12mm,        % Outer margin (reduced from 20mm)
    top=15mm,          % Top margin (reduced from 25mm)
    bottom=12mm,       % Bottom margin (reduced from
20mm)
    headsep=7mm,       % Space between header and text
(proportional to A5)
    footskip=7mm,      % Space between footer and text
(proportional to A5)
    includehead,       % Include header in margin
calculations
    includefoot,       % Include footer in margin
calculations
}

% Command to set the background image for a single page
\newcommand\BackgroundPicFrontPage{
  \AddToShipoutPictureBG*{
    \AtPageLowerLeft{

\includegraphics[width=\paperwidth,height=\paperheight]
```

```latex
    {assets/background-frontpage.png}
        }
    }
}

% Switch to monospace font globally
\renewcommand{\familydefault}{\ttdefault}

% \doublespacing  % Use 1.5 line spacing
\setcounter{secnumdepth}{3}                % number sub-
subsections
\setcounter{tocdepth}{0}                % depth of table
of contents


% Prevent overflow issues
\setlength{\emergencystretch}{3em} % Allow slight
stretching of lines
\sloppy                        % Loosen word spacing
rules slightly
\widowpenalty=10000          % Avoid widow lines
(single lines at the top of a page)
\clubpenalty=10000            % Avoid club lines (single
lines at the bottom of a page)
\brokenpenalty=10000          % Avoid page breaks inside
paragraphs
\raggedbottom                  % Avoid stretching the
page vertically

\begin{document}

% Set the front page background image
\BackgroundPicFrontPage

\title{\textbf{There is a closed door at the end of the
corridor}}
\author{\textbf{Mauricio van der Maesen de Sombreff}}
\date{\the\year}
```

```latex
82
83  \maketitle      % generate the title page
84
85  % Reset color after front page
86  \ClearShipoutPicture
87  \color{black}
88
89  % \clearpage  % Move to the next page (to avoid
    background on TOC)
90  \pagestyle{empty}  % No page number on the TOC
91  {
92      \newgeometry{
93          a5paper,          % Set the paper size to A5
94          inner=15mm,       % Inner margin for binding
    (reduced from 25mm)
95          outer=12mm,       % Outer margin (reduced from
    20mm)
96          top=2mm,          % Top margin (reduced from
    25mm)
97          bottom=12mm,      % Bottom margin (reduced from
    20mm)
98          headsep=2mm,      % Space between header and
    text (proportional to A5)
99          footskip=7mm,     % Space between footer and
    text (proportional to A5)
100         includehead,      % Include header in margin
    calculations
101         includefoot,      % Include footer in margin
    calculations
102     }
103     \small
104     \tableofcontents
105     \normalsize
106     \clearpage % Ensure new page for subsequent content
107     \restoregeometry % Restore original margins
108 }
109
110 % \pagestyle{empty}  % No page number on the TOC
```

```latex
\newpage  % Move to the next page after TOC
\pagestyle{plain}  % Start page numbering again

\include{preface}
\include{introduction}
\include{memory}
\include{curiosity}
\include{neurodiversity}
\include{perception}
\include{laplace-demon}
\include{hypervigilance}
\include{wave-function-collapse}
\include{emulation}
\include{decay}
\include{readings}

\end{document}
```