

# YOUR TITLE HERE

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# Chapter 1

## Introduction

This is a PhD thesis template. All the style formatting can be found in `thesis.sty`.

## Part I

# Main Part

# Chapter 2

## Important Chapter

If you desire, you can split your thesis into “parts” with the `\part{}` command. Some other cool things you can do:

### EXAMPLE 1: AN EXAMPLE ENVIRONMENT

Consider an example, which you would like to present to the reader. I like the following equation:

$$e^{i\pi} + 1 = 0 .$$

Also, you can display algorithms as follows:

Algorithm 2.1: C++ pseudocode of an algorithm

```
1 // mesh and basis function calculations
2 generate_mesh(); generate_basis_functions();
3
4 for (time_index = 0; time_index < num_time_steps; ++time_index) {
5
6     initialize_u_vector(); initialize_delta_u();
7
8     while (norm(delta_u) > newton_tolerance) {
9         // initialize global residual vector and stiffness matrix
10        initialize_r_vector(); initialize_K_matrix();
11
12        assemble_K_matrix();
13        assemble_r_vector();
14
15        // apply boundary conditions
16        apply_boundary_conditions(K_matrix, r_vector);
17
18        solve_delta_u(delta_u, K_matrix, r_vector);
19        u_vector += delta_u;
```

```
20     }  
21  
22     output_u_vector();  
23 }
```

Both the example and algorithm environments can be modified in the `thesis.sty` file.