

## Titel

Bachelor's Thesis Proposal  
by Autor

Research group  
Data Science for Engineering

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## 1 Introduction

This template contains some hints of what to write in each section. *This is just an example.* There are good reasons to deviate from it. These are just some ideas to get started.

For the introduction:

- What general topic are we interested in, why does it matter (e.g., where is it used, what problem does it solve)?
- Explain some more background for the topic, help the reader (who may have never heard of the topic) understand what you are talking about.

(Tip: make such a bullet point list for yourself (with more concrete talking points) for all sections, *then* start writing text)

## 2 Current state of research

Explain what the current state of the topic is. This depends a lot on the concrete topic. For example, you could write about:

- What is a trivial (not suboptimal) way to solve  $x$ ?
- How is  $x$  usually solved in practice?
- What are typical ingredients/techniques to construct the systems we are interested in?
- How does [Eti14] solve the problem?
- What does the algorithm in [Eti14] do (roughly)?
- ...

### 3 Goals of the thesis

- What's the problem with existing solutions? (i.e. with the stuff you explained in the previous section)
- What's the goal of the thesis in a nutshell? (Probably: solve that problem/analyze the solution suggested by Eti [Eti14]/compare potential solutions/...)
- Then go into detail. What are the specifics of what you are going to do? Explain intermediate goals.
- Explain optional goals.

### 4 Preliminary outline of the thesis

Show your current plan for the outline ( $\approx$  table of contents) of your thesis. A hierarchical list of section names suffices. Example:

1. Introduction
2. Definitions and notation
3. First topic
  - a) First subsection
  - b) ...
4. ...

After reading the *Goals* section, the reader should be able to understand what you're planning here.

### 5 Work plan

How do you plan to spend your 21 weeks of work on the thesis? For a fancy Gantt chart, consider using the `pgfgantt` package. If done well, a bullet point list is also sufficient.

Date:

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Jun.-Prof. Dr. Sebastian Peitz

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Autor

### References

- [Eti14] Y. Eti. On the Importance of Correct Stirring. *International Journal of Cookie Theory*, 13(1):1–247, 2014.