# A simple AAU Template for a Collection of Papers Ph.D. Thesis

Ph.D. Dissertation

Author

Dissertation submitted month XX, 20XX

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| Assistant PhD Supervisor: | Assoc. Prof. XX<br>Aalborg University |
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# Curriculum Vitae

Author name

Here is the CV text.

Curriculum Vitae

# Abstract

English abstract

# Resumé

Danish Abstract

# Contents

# Todo list

# Preface

As my background does (did) not lie in mathematics, physics or computer science, which – trust me – were three equally crucial components in creating the result of this project, I added a, say, more pedagogical section at the end of this thesis. These tutorials are a result of the things that I learned and (hopefully) explain topics such as *Energy Analysis*, *Stability Analysis*, etc. in a way so that others with the same background will be able to understand what is going on.

Name
Aalborg University, January 7, 2020

# Part I

# Introduction

# Introduction

## 1 History of bowed strings

In static bow-string-interaction models, the friction force is defined as a function of the relative velocity between the bow and the string only. The first mathematical description of friction was proposed by Coulomb in 1773 [**?**] to which static friction, or *stiction*, was added by Morin in 1833 [**?**] and viscous friction, or velocity-dependent friction, by Reynolds in 1886 [**?**]. In 1902, Stribeck found a smooth transition between the static and the coulomb part of the friction curve now referred to as the Stribeck effect [**?**]. The latter is still the standard for static friction models today.

## 2 To do thingies

- Think about how to define real-time.

## 3 Conclusion

In case you have questions, comments, suggestions or have found a bug, please do not hesitate to contact me. You can find my contact details below.

Jesper Kjær Nielsen
jkn@create.aau.dk
http://sqrt-1.dk
Audio Analysis Lab, CREATE
Aalborg University
Denmark

## References

References

# Part II

# Models

# Models

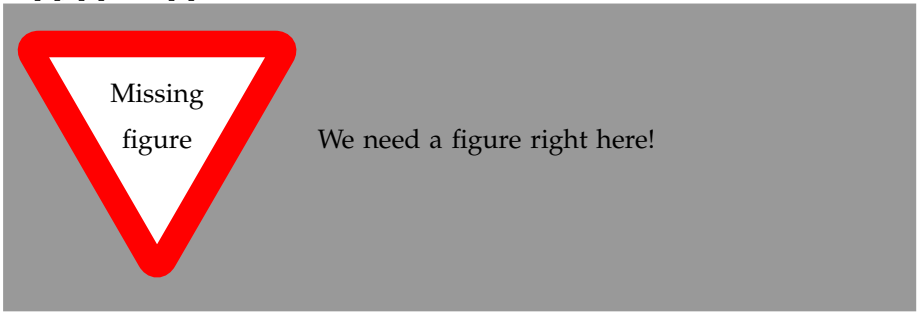
## 4 Bow Models

As opposed to less complex bow models, such as the hyperbolic [source] and exponential [source] models, the elasto-plastic bow model assumes that the friction between the bow and the string is caused by a large quantity of bristles, each of which contributes to the total amount of friction.

## 5 Section 2 name

Here is section 2. If you want to leearn more about LaTeX $2_\varepsilon$, have a look at [**?**], [**?**] and [**?**].

I think this word is mis-pelled




### 5.1 Examples

You can also have examples in your document such as in example **??**.

**Example 5.1 (An Example of an Example)**
Here is an example with some math

$$0 = \exp(i\pi) + 1\,. \tag{1}$$

You can adjust the colour and the line width in the `macros.tex` file.

## 5.2 How does Subsections and Subsubsections Look?

Well, like this

#### This is a Subsubsection

and this.

**A Paragraph** You can also use paragraph titles which look like this.

**A Subparagraph** Moreover, you can also use subparagraph titles which look like this. They have a small indentation as opposed to the paragraph titles.

Is it possible to add a subsub-paragraph?

I think that a summary of this exciting chapter should be added.

# 6 Conclusion

In case you have questions, comments, suggestions or have found a bug, please do not hesitate to contact me. You can find my contact details below.

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jkn@create.aau.dk
http://sqrt-1.dk
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Aalborg University
Denmark

# References

[1] L. Madsen, "Introduktion til LaTeX," http://www.imf.au.dk/system/latex/bog/, 2010.

[2] F. Mittelbach, *The LATEX companion*, 2nd ed. Addison-Wesley, 2005.

[3] T. Oetiker, "The not so short a introduction to LaTeX2e," http://tobi.oetiker.ch/lshort/lshort.pdf, 2010.

# Part III

# Papers

# Paper A

## Paper A title

List of authors

The paper has been published in the
*Journal or Proceedings* Vol. XX(X), pp. XXX–XXX, 201X.

*The layout has been revised.*

## Abstract

*Here is an abstract.*


# 1 Introduction

Here is an introduction [**?**].

# 2 Conclusion

Here is the conclusion.

# A An appendix

Here is some text.

## References

[1] F. Mittelbach, *The LATEX companion*, 2nd ed. Addison-Wesley, 2005.

References

# Paper B

## Paper B title

List of authors

The paper has been published in the
*Journal or Proceedings* Vol. XX(X), pp. XXX–XXX, 201X.

*The layout has been revised.*

## Abstract

*Here is an abstract.*


# 1 Introduction

Here is an introduction [**?**].

# 2 Conclusion

Here is the conclusion.

## References

[1] F. Mittelbach, *The LATEX companion*, 2nd ed. Addison-Wesley, 2005.