

---

---

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

---

---

Ph.D. Dissertation  
Author

Dissertation submitted month XX, 20XX

Thesis submitted: Month XX, 20XX  
PhD Supervisor: Prof. XX  
Aalborg University  
Assistant PhD Supervisor: Assoc. Prof. XX  
Aalborg University  
PhD Committee: Prof. X, Y University  
Prof. X, Y University  
Prof. X, Y University  
PhD Series: Faculty of X, Aalborg University

ISSN: xxxx-xxxx  
ISBN: xxx-xx-xxxx-xxx-x

Published by:  
Aalborg University Press  
Skjernvej 4A, 2nd floor  
DK – 9220 Aalborg Ø  
Phone: +45 99407140  
aauf@forlag.aau.dk  
forlag.aau.dk

© Copyright by author

Printed in Denmark by Rosendahls, 20XX

Normalsider: XXX sider (á 2.400 anslag inkl. mellemrum).  
Standard pages: XXX pages (2,400 characters incl. spaces).

# Curriculum Vitae

Author name



Here is the CV text.

## Curriculum Vitae

# Abstract

English abstract

## Abstract

# Resumé

Danish Abstract

## Resumé



# Contents

|                                      |          |
|--------------------------------------|----------|
| Curriculum Vitae                     | iii      |
| Abstract                             | v        |
| Resumé                               | vii      |
| Preface                              | xiii     |
| <br>                                 |          |
| <b>I Introduction</b>                | <b>1</b> |
| <br>                                 |          |
| Introduction                         | 3        |
| 1 History of bowed strings . . . . . | 3        |
| 2 To do thingies . . . . .           | 3        |
| 3 Conclusion . . . . .               | 3        |
| References . . . . .                 | 3        |
| <br>                                 |          |
| <b>II Papers</b>                     | <b>5</b> |

## Contents

# Todo list

## Contents

# 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

## Preface

**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://sqr-1.dk>  
Audio Analysis Lab, CREATE  
Aalborg University  
Denmark

## References

## References

# **Part II**

# **Papers**

