

# A lightning start to a dissertations

## or an approach from multiple fields



Your First Names Lastname



# **A lightning start to a dissertations**

or an approach from multiple fields

**Your First Names Lastname**



*Science is a wonderful thing  
if one does not have to earn one's living at it.*

Albert Einstein



SIKS Dissertation Series No. XXX

The research reported in this thesis has been carried out under the auspices of SIKS,  
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# **A lightning start to a dissertations**

or an approach from multiple fields

**Een snelle start van je PhD manuscript**  
of een benadering vanuit meerdere hoeken

(met een samenvatting in het Nederlands)

## **Proefschrift**

ter verkrijging van de graad van doctor aan de Universiteit Utrecht  
op gezag van de rector magnificus, prof.dr. H.R.B.M. Kummeling,  
ingevolge het besluit van het college voor promoties  
in het openbaar te verdedigen  
op woensdag DD mmmmm YYYY des ochtends te UU.UU uur

door

**Your First Names Lastname**

geboren op DD month YYYY te CITY

Promotoren:

*Prof. dr. I.M. portant*

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*dr. O. ther*

Beoordelingscommissie:

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*Prof. dr. H.J. Farnsworth*

*dr. S. Omega*

*Prof. dr. P. Psi*

*prof. dr. C. Xi*

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# Contents

<b>Acronyms</b>	<b>ix</b>
<b>Preface</b>	<b>xi</b>
<hr/>	
<b>Part I Introduction title in the TOC</b>	<b>1</b>
<hr/>	
<b>1 Introduction</b>	<b>3</b>
1.1 Some context . . . . .	3
<hr/>	
<b>Part II Properties of a dissertation class</b>	<b>5</b>
<hr/>	
<b>2 Dissertation class description</b>	<b>9</b>
2.1 Document Structure . . . . .	10
2.2 Title Page . . . . .	11
2.3 Chapters . . . . .	11
2.4 \section{...} . . . . .	13
2.5 Fonts and Colours . . . . .	13
<hr/>	
<b>Part III Concluding remarks</b>	<b>15</b>
<hr/>	
<b>3 Conclusion</b>	<b>17</b>
3.1 Some context . . . . .	17
<hr/>	
<b>Part IV Appendices</b>	<b>19</b>
<hr/>	
<b>References</b>	<b>19</b>
<b>A addition to chapter x</b>	<b>23</b>
<hr/>	
<b>Part V Backmatter</b>	<b>25</b>
<hr/>	
<b>B List of SIKS-dissertations</b>	<b>27</b>



# Acronyms

**EU** European Union



# Preface

While the scientific content of the presented work is complete, the formatting of its presentation is still under development. So please forgive me the ill considered placement of figures or general layout, this will be tackled in the future.

*Your First Names Lastname  
Utrecht, March 2024*



# I

Part I

## Introduction title on the chapter titlepage

*You're only given a little spark of madness, and if you lose that...  
you're nothing.*

Robin Williams

### Plain Language Summary

This thesis describes the design, application and evaluation of metrics and measures aimed to support stakeholders to achieve something awesome.

We show off some cool findings, like the specific method we used.

Several new techniques have also been explored. This meant that we could provide more in-depth insight where it was needed.

**Contents**

<b>1 Introduction</b>	<b>3</b>
1.1 Some context . . . . .	3

# 1

## Introduction

This is a introduction chapter explaining the scientific and technical questions that are currently unsolved.

This line is merely intended to use as a reference to some acronyms used in the main text like European Union (EU) and when used again EU.

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### 1.1. Some context

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# Part II

## Properties of a dissertation class

*If you like quotes..  
this might be a way to go.*

Laurens P. Stoop

### Plain Language Summary

This thesis describes the design, application and evaluation of metrics and measures aimed to support the integration of Energy & Climate modelling, aimed to capture relevant aspects of the weather and climate. Several new measurement techniques are presented as well as an Application-Specific Integrated Circuit (ASIC) designed for accurate measurement of flow velocity with matrix transducers.

The influence of circuit topologies on the zero-flow performance of ultrasonic flow meters has been analyzed and an algorithm is presented to reduce the offset. With a linear transducer array, flow measurements have been performed via two different acoustic paths, demonstrating the ability to accurately measure flow with array transducers through a stainless-steel pipe wall. In order to improve signal quality, an ASIC has been designed that is able to drive and read-out 96 piezo transducer elements. The ASIC has been characterized electrically and flow measurements have been performed in combination with the linear transducer arrays.

Several new techniques, enabled using transducer arrays, have also been explored. By tapering the amplitude of the transmit signals, spurious waves can be suppressed. An auto-calibration technique has been developed that uses additional acoustic measurements to estimate the diameter of the pipe and the speed of sound in the pipe wall and liquid. Finally, a simulation study has been performed to explore the possibility of exploiting the beam-steering capabilities of transducer arrays to measure flow velocity

profiles by using measurements obtained via multiple acoustic paths.

**Contents**

<b>2 Dissertation class description</b>	<b>9</b>
2.1 Document Structure . . . . .	10
2.2 Title Page . . . . .	11
2.3 Chapters . . . . .	11
2.4 \section{...} . . . . .	13
2.5 Fonts and Colours . . . . .	13



# 2

## Dissertation class description

*Everything is possible, the impossible might take two days.*

*Family motto*

### Plain Language Summary

In this chapter the properties of the dissertation class are described.

---

The contents of this chapter are under review at A FANCY JOURNAL, for which a preprint is available on arXiv [1].

This document is intended to be both an example of the Utrecht University dissertation template for L<sup>A</sup>T<sub>E</sub>X, as well as a short introduction to its use. It is not intended to be a general introduction to L<sup>A</sup>T<sub>E</sub>X itself,<sup>1</sup> and we will assume the reader to be familiar with the basics of creating and compiling documents.

Instructions on how to use this template under Windows and Linux, and which L<sup>A</sup>T<sub>E</sub>X packages are required, can be found in `README.txt`.

## 2

### 2.1. Document Structure

**S**ince a dissertation is a substantial document, it is convenient to break it up into smaller pieces. In this template we therefore give every chapter its own file. The chapters (and appendices) are gathered together in `main.tex`, which is the master file describing the overall structure of the document. `main.tex` starts with the line

```
\documentclass{dissertation}
```

which loads the dissertation template. The template is based on the L<sup>A</sup>T<sub>E</sub>X book document class and stored in `dissertation.cls`. The document class accepts several comma-separated options. By default, hyperlinks are shown in black, but this can be changed. Which is convenient when reading the dissertation on a computer, but can be expensive when printing.

*these options don't work atm* They can be turned black with the `print` option. This will also turn the headers dark gray instead of cyan. Moreover, it will add a 3 mm bleed around the page including crop marks. This will help the printer with the thumb indices, since they run right up to the page borders. Finally, the `nativefonts` option can be used to override the automatic font selection (see below).

A dissertation is a big document, which makes it easy to miss warnings about the layout in the L<sup>A</sup>T<sub>E</sub>X output. In order to locate problem areas, add the `draft` option to the `\documentclass` line. This will display a vertical bar in the margins next to the paragraphs that require attention.

The contents of the dissertation are included between the `\begin{document}` and `\end{document}` commands, and split into three parts by

1. `\frontmatter`, which uses Roman numerals for the page numbers and is used for the title page and the table of contents;
2. `\mainmatter`, which uses Arabic numerals for the page numbers and is the style for the chapters;
3. `\appendix`, which uses letters for the chapter numbers, starting with 'A'.

The title page is defined in `title.tex` in the `title` folder and included verbatim with

---

<sup>1</sup>We recommend <http://en.wikibooks.org/wiki/LaTeX> as a reference and a starting point for new users.

\include{title/title}<sup>2</sup> (see below). Additionally, it is possible to include a preface, containing, for example, the acknowledgements. An example can be found in `preface.tex`. The table of contents is generated automatically with the \tableofcontents command. Chapters are included after \mainmatter and appendices after \appendix. For example, \include{chapter-1/chapter-1} includes `chapter-1.tex`, which contains this introduction.

## 2.2. Title Page

2

The title pages are defined in `title/title.tex`, which you will have to modify according to your needs. Note that these pages are subject to the requirements of the *promotiereglement* and cannot be changed at will. Apart from the names and dates, most of the Dutch text is dictated literally.

Since the thesis title and name of the author appear several times throughout the document (on the title page, but also in, e.g., the preface and cv), special commands are provided so they only have to be specified once. The title (and optional subtitle) can be specified with

```
\title[Optional subtitle]{Title}
```

The name of the author is specified with

```
\author{First name}{Last name}
```

Note that the first and last name are separate arguments, since they may be printed in different font shapes. The \title and \author commands also ensure that the title and author appear in the metadata of the final PDF.

See `title/title.tex` for detailed documentation on the comment and layout of the title pages. Logos of institutes that have contributed financially to the dissertation may be included on reverse side of the title page. A few example logos can be found in the `title/logos` folder.

## 2.3. Chapters

Each chapter has its own file. For example, the L<sup>A</sup>T<sub>E</sub>X source of this chapter can be found in `chapter-1.tex`. A chapter starts with the command

```
\chapter{Chapter title}
```

This starts a new page, prints the chapter number and title and adds a link in the table of contents. If the title is very long, it may be desirable to use a shorter version in the page headers and the table of contents. This can be achieved by specifying the short title in brackets:

```
\chapter[Short title]{Very long title with many words which could not possibly fit on one line}
```

---

<sup>2</sup>Note that it is not necessary to specify the file extension.

Unnumbered chapters, such as the preface, can be created with `\chapter*{Chapter title}`. Such a chapter will not show up in the table of contents or in the page header. To create a table of contents entry anyway, add

```
\addcontentsline{toc}{chapter}{Chapter title}
```

after the `\chapter` command. To print the chapter title in the page header, add

**2**

```
\setheader{Chapter title}
```

If (parts of) the chapter have already been published elsewhere, it is customary to add a reference. This can be done with the special unnumbered footnote command `\blfootnote`. For example,

```
\blfootnote{Parts of this chapter have been published in Annalen der Physik \textbf{324}, 289 (1906) \cite{Einstein1906}.}
```

generates the footnote at the beginning of this chapter. Because this footnote is unnumbered, the `hyperref` package may throw a warning, which safely be ignored.

If multiple people have contributed significantly to this chapter, they can be listed with the `\authors` command. This can be followed by a quotation using `\epigraph` as shown above. Finally, it is customary for a dissertation to include an abstract for every chapter (except perhaps the introduction). This can be accomplished with the `abstract` environment. The abstract should be followed by `\newpage` to start the chapter text on a new page.

In a dissertation, each chapter has its own list of references. These can be generated with the special command `\references{dissertation}` from `dissertation.bib` at the end of the chapter. Note that this means that you need to run a command like `bibtex chapter-1/chapter-1` for each chapter. The bibliography style is specified in `dissertation bst`, which is a modified version of `apsrev4-1 bst` (from REVTeX) designed to also display the titles of referenced articles. The template will automatically generate clickable hyperlinks if a URL or DOI (digital object identifier) is present for the reference. Although it is possible to manage the bibliography by hand, we recommend using EndNote (available from Blackboard) or JabRef (available from <http://jabref.sourceforge.net/>).

Chapters are subdivided into sections, subsections, subsubsections, and, optionally, paragraphs and subparagraphs. All can have a title, but only sections and subsections are numbered. As with chapters, the numbering can be turned off by using `\section*{...}` instead of `\section{...}`, and similarly for the subsection.

## 2.4. `\section{...}`

### 2.4.1. `\subsection{...}` `\subsubsection{...}`

**paragraph{...}** Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam,

quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

## 2.5. Fonts and Colours

*needs to be updated*

The fonts used by this template depend on which version of L<sup>A</sup>T<sub>E</sub>X you use. Regular L<sup>A</sup>T<sub>E</sub>X, *i.e.*, if you compile your document with `latex`, `pslatex` or `pdflatex`, will use Utopia for text, Fourier for math and Latin Modern for sans-serif and monospaced text. However, if you want to adhere to the TU Delft house style, you will need to use X<sub>L</sub><sup>A</sup>T<sub>E</sub>X, as it supports TrueType and OpenType fonts. Compiling with `xelatex` will use Bookman Old Style for titles, Tahoma for text, Courier New for mono-space and Cambria for math. If you want to use X<sub>L</sub><sup>A</sup>T<sub>E</sub>X, but do not want to use the TU Delft house style fonts, you can add the `nativefonts` option to the document class.

This template supports the use of drop caps, a large colored initial at the beginning of a chapter or section, via the `\dropcap` command:

```
\dropcap{L}{orem} ipsum...
```

The first argument is the capital that will be printed on two lines (in the title color), and the second argument is the rest of the word. Depending on the font, the latter may be printed in small caps.

The corporate colors of the Utrecht University are red, black and yellow, available, respectively, via `\color{uu-red}`, `\color{uu-black}` (which differs slightly from the default `black`) and `\color{uu-yellow}`. Apart from these three, the house style defines the basic colors

- `uu-cream`,
- `uu-orange`,
- `uu-burgundy`,
- `uu-brown`,
- `uu-green`,
- `uu-blue`,
- `uu-darkblue` and
- `uu-purple`



# Part III

## Concluding Remarks

*If you like quotes..  
this might be a way to go.*

Laurens P. Stoop

Plain Language Summary

**Contents**

<b>3 Conclusion</b>	<b>17</b>
3.1 Some context . . . . .	17

# 3

## Conclusion

*This is a concluding chapter explaining the scientific and technical implications for society of the research findings in considerable detail.*

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### 3.1. Some context

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# Part IV

## Appendies

### Contents

References	19
A addition to chapter x	23



## References

1. Einstein, A. Eine neue Bestimmung der Moleküldimensionen. *Annalen der Physik* **324**, 289–306. doi:10 . 1002 / andp . 19063240204. <http://dx.doi.org/10.1002/andp.19063240204> (1906).



# A

## addition to chapter x

Some profound addition



# V

Part

## Backmatter

*A good manuscript is a submitted manuscript. A great manuscript is a published manuscript. A perfect manuscript is neither.*

Shit Academics Say

### Contents

B List of SIKS-dissertations	27
------------------------------	----



# B

## List of SIKS-dissertations

2017

- 
- 2017 01 Jan-Jaap Oerlemans (UL), Investigating Cybercrime
  - 02 Sjoerd Timmer (UU), Designing and Understanding Forensic Bayesian Networks using Argumentation
  - 03 Daniël Harold Telgen (UU), Grid Manufacturing: A Cyber-Physical Approach with Autonomous Products and Reconfigurable Manufacturing Machines
  - 04 Mrunal Gawade (CWI), Multi-core Parallelism in a Column-store
  - 05 Mahdieh Shadi (UVA), Collaboration Behavior
  - 06 Damir Vandic (EUR), Intelligent Information Systems for Web Product Search
  - 07 Roel Bertens (UU), Insight in Information: from Abstract to Anomaly
  - 08 Rob Konijn (VU) , Detecting Interesting Differences:Data Mining in Health Insurance Data using Outlier Detection and Subgroup Discovery
  - 09 Dong Nguyen (UT), Text as Social and Cultural Data: A Computational Perspective on Variation in Text
  - 10 Robby van Delden (UT), (Steering) Interactive Play Behavior
  - 11 Florian Kunneman (RUN), Modelling patterns of time and emotion in Twitter #anticipointment
  - 12 Sander Leemans (TUE), Robust Process Mining with Guarantees
  - 13 Gijs Huisman (UT), Social Touch Technology - Extending the reach of social touch through haptic technology
  - 14 Shoshannah Tekofsky (UvT), You Are Who You Play You Are: Modelling Player Traits from Video Game Behavior
  - 15 Peter Berck (RUN), Memory-Based Text Correction
  - 16 Aleksandr Chuklin (UVA), Understanding and Modeling Users of Modern Search Engines
  - 17 Daniel Dimov (UL), Crowdsourced Online Dispute Resolution
  - 18 Ridho Reinanda (UVA), Entity Associations for Search
  - 19 Jeroen Vuurens (UT), Proximity of Terms, Texts and Semantic Vectors in Information Retrieval

- 20 Mohammadbashir Sedighi (TUD), Fostering Engagement in Knowledge Sharing: The Role of Perceived Benefits, Costs and Visibility
- 21 Jeroen Linssen (UT), Meta Matters in Interactive Storytelling and Serious Gaming (A Play on Worlds)
- 22 Sara Magliacane (VU), Logics for causal inference under uncertainty
- 23 David Graus (UVA), Entities of Interest — Discovery in Digital Traces
- 24 Chang Wang (TUD), Use of Affordances for Efficient Robot Learning
- 25 Veruska Zamborlini (VU), Knowledge Representation for Clinical Guidelines, with applications to Multimorbidity Analysis and Literature Search
- 26 Merel Jung (UT), Socially intelligent robots that understand and respond to human touch
- 27 Michiel Jooze (UT), Investigating Positioning and Gaze Behaviors of Social Robots: People's Preferences, Perceptions and Behaviors
- 28 John Klein (VU), Architecture Practices for Complex Contexts
- 29 Adel Alhuraibi (UvT), From IT-BusinessStrategic Alignment to Performance: A Moderated Mediation Model of Social Innovation, and Enterprise Governance of IT"
- 30 Wilma Latuny (UvT), The Power of Facial Expressions
- 31 Ben Ruijl (UL), Advances in computational methods for QFT calculations
- 32 Thaer Samar (RUN), Access to and Retrievability of Content in Web Archives
- 33 Brigit van Loggem (OU), Towards a Design Rationale for Software Documentation: A Model of Computer-Mediated Activity
- 34 Maren Scheffel (OU), The Evaluation Framework for Learning Analytics
- 35 Martine de Vos (VU), Interpreting natural science spreadsheets
- 36 Yuanhao Guo (UL), Shape Analysis for Phenotype Characterisation from High-throughput Imaging
- 37 Alejandro Montes Garcia (TUE), WiBAF: A Within Browser Adaptation Framework that Enables Control over Privacy
- 38 Alex Kayal (TUD), Normative Social Applications
- 39 Sara Ahmadi (RUN), Exploiting properties of the human auditory system and compressive sensing methods to increase noise robustness in ASR
- 40 Altaf Hussain Abro (VUA), Steer your Mind: Computational Exploration of Human Control in Relation to Emotions, Desires and Social Support For applications in human-aware support systems
- 41 Adnan Manzoor (VUA), Minding a Healthy Lifestyle: An Exploration of Mental Processes and a Smart Environment to Provide Support for a Healthy Lifestyle
- 42 Elena Sokolova (RUN), Causal discovery from mixed and missing data with applications on ADHD datasets
- 43 Maaike de Boer (RUN), Semantic Mapping in Video Retrieval
- 44 Garm Lucassen (UU), Understanding User Stories - Computational Linguistics in Agile Requirements Engineering
- 45 Bas Testerink (UU), Decentralized Runtime Norm Enforcement
- 46 Jan Schneider (OU), Sensor-based Learning Support
- 47 Jie Yang (TUD), Crowd Knowledge Creation Acceleration
- 48 Angel Suarez (OU), Collaborative inquiry-based learning

## 2018

---

- 
- 02 Felix Mannhardt (TUE), Multi-perspective Process Mining
  - 03 Steven Boses (UT), Causal Models For Well-Being: Knowledge Modeling, Model-Driven Development of Context-Aware Applications, and Behavior Prediction
  - 04 Jordan Janeiro (TUD), Flexible Coordination Support for Diagnosis Teams in Data-Centric Engineering Tasks
  - 05 Hugo Huerdeman (UVA), Supporting the Complex Dynamics of the Information Seeking Process
  - 06 Dan Ionita (UT), Model-Driven Information Security Risk Assessment of Socio-Technical Systems
  - 07 Jieting Luo (UU), A formal account of opportunism in multi-agent systems
  - 08 Rick Smetsers (RUN), Advances in Model Learning for Software Systems
  - 09 Xu Xie (TUD), Data Assimilation in Discrete Event Simulations
  - 10 Julienka Mollee (VUA), Moving forward: supporting physical activity behavior change through intelligent technology
  - 11 Mahdi Sargolzaei (UVA), Enabling Framework for Service-oriented Collaborative Networks
  - 12 Xixi Lu (TUE), Using behavioral context in process mining
  - 13 Seyed Amin Tabatabaei (VUA), Computing a Sustainable Future
  - 14 Bart Joosten (UVT), Detecting Social Signals with Spatiotemporal Gabor Filters
  - 15 Naser Davarzani (UM), Biomarker discovery in heart failure
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