

# 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, the Dutch Research School for Information and Knowledge Systems.

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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)

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:

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Beoordelingscommissie:

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This work was supported by the research project *A Very Important Project* (MAVIP), which was financed by the Some Important Scientific Research Organisation under grant number 011.235.813 and supported by the stakeholder Important Stakeholder<sup>TM</sup>.

# 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>7</b>
2.1 Document Structure . . . . .	8
2.2 Title Page . . . . .	9
2.3 Chapters . . . . .	9
2.4 \section{...} . . . . .	10
2.5 Fonts and Colours . . . . .	10
<hr/>	
<b>Part III Concluding remarks</b>	<b>13</b>
<hr/>	
<b>3 Conclusion</b>	<b>15</b>
3.1 Some context . . . . .	15
<hr/>	
<b>Part IV Appendices</b>	<b>17</b>
<hr/>	
<b>References</b>	<b>17</b>
<b>A addition to chapter x</b>	<b>21</b>
<hr/>	
<b>Part V Backmatter</b>	<b>23</b>
<hr/>	
<b>B Nederlandse samenvatting</b>	<b>25</b>
<b>C List of SIKS-dissertations</b>	<b>27</b>

<b>D List of scientific publications</b>	<b>35</b>
<b>E Curriculum Vitæ</b>	<b>37</b>
<b>Acknowledgements</b>	<b>39</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, December 2023*



# I

Part

## 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 III

## 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>7</b>
2.1 Document Structure . . . . .	8
2.2 Title Page . . . . .	9
2.3 Chapters . . . . .	9
2.4 \section{...} . . . . .	10
2.5 Fonts and Colours . . . . .	10

# 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  $\text{\LaTeX}$ , as well as a short introduction to its use. It is not intended to be a general introduction to  $\text{\LaTeX}$  itself,<sup>1</sup> and we will assume the reader to be familiar with the basics of creating and compiling documents.

## 2

Instructions on how to use this template under Windows and Linux, and which  $\text{\LaTeX}$  packages are required, can be found in `README.txt`.

## 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  $\text{\LaTeX}$  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  $\text{\LaTeX}$  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 `\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.

---

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

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

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

**T**he 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 *promotieregelement* 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

**E**ach 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}
```

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

```
\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 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 monospace and Cambria for math. If you want to use X<sub>Q</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-creme`,
- `uu-orange`,
- `uu-bordeaux`,
- `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>15</b>
3.1 Some context . . . . .	15

# 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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# IV

Part

## Appendies

### Contents

References	17
A addition to chapter x	21



## References

1. Einstein, A. Eine neue Bestimmung der Moleküldimensionen. *Annalen der Physik* **324**, 289–306. <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 Nederlandse samenvatting	25
C List of SIKS-dissertations	27
D List of scientific publications	35
E Curriculum Vitæ	37
Acknowledgements	39



# B

## Nederlandse samenvatting

Samenvatting in het Nederlands...



# C

## 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 Vuuren (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 Joosse (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

- 
- 2018 01 Han van der Aa (VUA), Comparing and Aligning Process Representations
  - 02 Felix Mannhardt (TUE), Multi-perspective Process Mining
  - 03 Steven Bosems (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 Huirdeaman (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  
 16 Jaebok Kim (UT), Automatic recognition of engagement and emotion in a group of children  
 17 Jianpeng Zhang (TUE), On Graph Sample Clustering  
 18 Henriette Nakad (UL), De Notaris en Private Rechtspraak  
 19 Minh Duc Pham (VUA), Emergent relational schemas for RDF  
 20 Manxia Liu (RUN), Time and Bayesian Networks  
 21 Aad Slootmaker (OUN), EMERGO: a generic platform for authoring and playing scenario-based serious games  
 22 Eric Fernandes de Mello Araújo (VUA), Contagious: Modeling the Spread of Behaviours, Perceptions and Emotions in Social Networks  
 23 Kim Schouten (EUR), Semantics-driven Aspect-Based Sentiment Analysis  
 24 Jered Vroon (UT), Responsive Social Positioning Behaviour for Semi-Autonomous Tele-presence Robots  
 25 Riste Gligorov (VUA), Serious Games in Audio-Visual Collections  
 26 Roelof Anne Jelle de Vries (UT), Theory-Based and Tailor-Made: Motivational Messages for Behavior Change Technology  
 27 Maikel Leemans (TUE), Hierarchical Process Mining for Scalable Software Analysis  
 28 Christian Willemse (UT), Social Touch Technologies: How they feel and how they make you feel  
 29 Yu Gu (UVT), Emotion Recognition from Mandarin Speech  
 30 Wouter Beek, The "K" in "semantic web" stands for "knowledge": scaling semantics to the web

## 2019

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- 2019 01 Rob van Eijk (UL), Web privacy measurement in real-time bidding systems. A graph-based approach to RTB system classification  
 02 Emmanuelle Beauxis Aussalet (CWI, UU), Statistics and Visualizations for Assessing Class Size Uncertainty  
 03 Eduardo Gonzalez Lopez de Murillas (TUE), Process Mining on Databases: Extracting Event Data from Real Life Data Sources  
 04 Ridho Rahmadi (RUN), Finding stable causal structures from clinical data  
 05 Sebastiaan van Zelst (TUE), Process Mining with Streaming Data

- 06 Chris Dijkshoorn (VU), Nichesourcing for Improving Access to Linked Cultural Heritage Datasets
- 07 Soude Fazeli (TUD), Recommender Systems in Social Learning Platforms
- 08 Frits de Nijs (TUD), Resource-constrained Multi-agent Markov Decision Processes
- 09 Fahimeh Alizadeh Moghaddam (UVA), Self-adaptation for energy efficiency in software systems
- 10 Qing Chuan Ye (EUR), Multi-objective Optimization Methods for Allocation and Prediction
- 11 Yue Zhao (TUD), Learning Analytics Technology to Understand Learner Behavioral Engagement in MOOCs
- 12 Jacqueline Heinerman (VU), Better Together
- 13 Guanliang Chen (TUD), MOOC Analytics: Learner Modeling and Content Generation
- 14 Daniel Davis (TUD), Large-Scale Learning Analytics: Modeling Learner Behavior & Improving Learning Outcomes in Massive Open Online Courses
- 15 Erwin Walraven (TUD), Planning under Uncertainty in Constrained and Partially Observable Environments
- 16 Guangming Li (TUE), Process Mining based on Object-Centric Behavioral Constraint (OCBC) Models
- 17 Ali Hurriyetoglu (RUN), Extracting actionable information from microtexts
- 18 Gerard Wagenaar (UU), Artefacts in Agile Team Communication
- 19 Vincent Koeman (TUD), Tools for Developing Cognitive Agents
- 20 Chide Groenouwe (UU), Fostering technically augmented human collective intelligence
- 21 Cong Liu (TUE), Software Data Analytics: Architectural Model Discovery and Design Pattern Detection
- 22 Martin van den Berg (VU), Improving IT Decisions with Enterprise Architecture
- 23 Qin Liu (TUD), Intelligent Control Systems: Learning, Interpreting, Verification
- 24 Anca Dumitrache (VU), Truth in Disagreement - Crowdsourcing Labeled Data for Natural Language Processing
- 25 Emiel van Miltenburg (VU), Pragmatic factors in (automatic) image description
- 26 Prince Singh (UT), An Integration Platform for Synchromodal Transport
- 27 Alessandra Antonaci (OUN), The Gamification Design Process applied to (Massive) Open Online Courses
- 28 Esther Kuindersma (UL), Cleared for take-off: Game-based learning to prepare airline pilots for critical situations
- 29 Daniel Formolo (VU), Using virtual agents for simulation and training of social skills in safety-critical circumstances
- 30 Vahid Yazdanpanah (UT), Multiagent Industrial Symbiosis Systems
- 31 Milan Jelisavcic (VU), Alive and Kicking: Baby Steps in Robotics
- 32 Chiara Sironi (UM), Monte-Carlo Tree Search for Artificial General Intelligence in Games
- 33 Anil Yaman (TUE), Evolution of Biologically Inspired Learning in Artificial Neural Networks
- 34 Negar Ahmadi (TUE), EEG Microstate and Functional Brain Network Features for Classification of Epilepsy and PNES
- 35 Lisa Facey-Shaw (OUN), Gamification with digital badges in learning programming
- 36 Kevin Ackermans (OUN), Designing Video-Enhanced Rubrics to Master Complex Skills
- 37 Jian Fang (TUD), Database Acceleration on FPGAs
- 38 Akos Kadar (OUN), Learning visually grounded and multilingual representations

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- 2020 01 Armon Toubman (UL), Calculated Moves: Generating Air Combat Behaviour  
02 Marcos de Paula Bueno (UL), Unraveling Temporal Processes using Probabilistic Graphical Models  
03 Mostafa Deghani (UvA), Learning with Imperfect Supervision for Language Understanding  
04 Maarten van Gompel (RUN), Context as Linguistic Bridges  
05 Yulong Pei (TUE), On local and global structure mining  
06 Preethu Rose Anish (UT), Stimulation Architectural Thinking during Requirements Elicitation - An Approach and Tool Support  
07 Wim van der Vegt (OUN), Towards a software architecture for reusable game components  
08 Ali Mirsoleimani (UL), Structured Parallel Programming for Monte Carlo Tree Search  
09 Myriam Traub (UU), Measuring Tool Bias and Improving Data Quality for Digital Humanities Research  
10 Alifah Syamsiyah (TUE), In-database Preprocessing for Process Mining  
11 Sepideh Mesbah (TUD), Semantic-Enhanced Training Data Augmentation Methods for Long-Tail Entity Recognition Models  
12 Ward van Breda (VU), Predictive Modeling in E-Mental Health: Exploring Applicability in Personalised Depression Treatment  
13 Marco Virgolin (CWI), Design and Application of Gene-pool Optimal Mixing Evolutionary Algorithms for Genetic Programming  
14 Mark Raasveldt (CWI/UL), Integrating Analytics with Relational Databases  
15 Konstantinos Georgiadis (OUN), Smart CAT: Machine Learning for Configurable Assessments in Serious Games  
16 Ilona Wilmont (RUN), Cognitive Aspects of Conceptual Modelling  
17 Daniele Di Mitri (OUN), The Multimodal Tutor: Adaptive Feedback from Multimodal Experiences  
18 Georgios Methenitis (TUD), Agent Interactions & Mechanisms in Markets with Uncertainties: Electricity Markets in Renewable Energy Systems  
19 Guido van Capelleveen (UT), Industrial Symbiosis Recommender Systems  
20 Albert Hankel (VU), Embedding Green ICT Maturity in Organisations  
21 Karine da Silva Miras de Araujo (VU), Where is the robot?: Life as it could be  
22 Maryam Masoud Khamis (RUN), Understanding complex systems implementation through a modeling approach: the case of e-government in Zanzibar  
23 Rianne Conijn (UT), The Keys to Writing: A writing analytics approach to studying writing processes using keystroke logging  
24 Lenin da Nóbrega Medeiros (VUA/RUN), How are you feeling, human? Towards emotionally supportive chatbots  
25 Xin Du (TUE), The Uncertainty in Exceptional Model Mining  
26 Krzysztof Leszek Sadowski (UU), GAMBIT: Genetic Algorithm for Model-Based mixed-Integer opTimization  
27 Ekaterina Muravyeva (TUD), Personal data and informed consent in an educational context  
28 Bibeg Limbu (TUD), Multimodal interaction for deliberate practice: Training complex skills with augmented reality  
29 Ioan Gabriel Bucur (RUN), Being Bayesian about Causal Inference  
30 Bob Zadok Blok (UL), Creatief, Creatieve, Creatiefst  
31 Gongjin Lan (VU), Learning better – From Baby to Better  
32 Jason Rhuggenaath (TUE), Revenue management in online markets: pricing and online advertising  
33 Rick Gilsing (TUE), Supporting service-dominant business model evaluation in the context of business model innovation

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- 34 Anna Bon (MU), Intervention or Collaboration? Redesigning Information and Communication Technologies for Development
  - 35 Siamak Farshidi (UU), Multi-Criteria Decision-Making in Software Production

## 2021

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- 2021 01 Francisco Xavier Dos Santos Fonseca (TUD), Location-based Games for Social Interaction in Public Space
- 02 Rijk Mercur (TUD), Simulating Human Routines: Integrating Social Practice Theory in Agent-Based Models
- 03 Seyyed Hadi Hashemi (UVA), Modeling Users Interacting with Smart Devices
- 04 Ioana Jivet (OU), The Dashboard That Loved Me: Designing adaptive learning analytics for self-regulated learning
- 05 Davide Dell'Anna (UU), Data-Driven Supervision of Autonomous Systems
- 06 Daniel Davison (UT), "Hey robot, what do you think?" How children learn with a social robot
- 07 Armel Lefebvre (UU), Research data management for open science
- 08 Nardie Fanchamps (OU), The Influence of Sense-Reason-Act Programming on Computational Thinking
- 09 Cristina Zaga (UT), The Design of Robothings. Non-Anthropomorphic and Non-Verbal Robots to Promote Children's Collaboration Through Play
- 10 Quinten Meertens (UvA), Misclassification Bias in Statistical Learning
- 11 Anne van Rossum (UL), Nonparametric Bayesian Methods in Robotic Vision
- 12 Lei Pi (UL), External Knowledge Absorption in Chinese SMEs
- 13 Bob R. Schadenberg (UT), Robots for Autistic Children: Understanding and Facilitating Predictability for Engagement in Learning
- 14 Negin Samaeemofrad (UL), Business Incubators: The Impact of Their Support
- 15 Onat Ege Adali (TU/e), Transformation of Value Propositions into Resource Re-Configurations through the Business Services Paradigm
- 16 Esam A. H. Ghaleb (UM), Bimodal emotion recognition from audio-visual cues
- 17 Dario Dotti (UM), Human Behavior Understanding from motion and bodily cues using deep neural networks
- 18 Remi Wieten (UU), Bridging the Gap Between Informal Sense-Making Tools and Formal Systems - Facilitating the Construction of Bayesian Networks and Argumentation Frameworks
- 19 Roberto Verdecchia (VU), Architectural Technical Debt: Identification and Management
- 20 Masoud Mansoury (TU/e), Understanding and Mitigating Multi-Sided Exposure Bias in Recommender Systems
- 21 Pedro Thiago Timbó Holanda (CWI), Progressive Indexes
- 22 Sihang Qiu (TUD), Conversational Crowdsourcing
- 23 Hugo Manuel Proença (LIACS), Robust rules for prediction and description
- 24 Kaijie Zhu (TUE), On Efficient Temporal Subgraph Query Processing
- 25 Eoin Martino Grua (VUA), The Future of E-Health is Mobile: Combining AI and Self-Adaptation to Create Adaptive E-Health Mobile Applications
- 26 Benno Kruit (CWI & VUA), Reading the Grid: Extending Knowledge Bases from Human-readable Tables
- 27 Jelte van Waterschoot (UT), Personalized and Personal Conversations: Designing Agents Who Want to Connect With You
- 28 Christoph Selig (UL), Understanding the Heterogeneity of Corporate Entrepreneurship Programs

## 2022

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- 2022 01 Judith van Stegeren (UT), Flavor text generation for role-playing video games
- 02 Paulo da Costa (TU/e), Data-driven Prognostics and Logistics Optimisation: A Deep Learning Journey
- 03 Ali el Hassouni (VUA), A Model A Day Keeps The Doctor Away: Reinforcement Learning For Personalized Healthcare
- 04 Ünal Aksu (UU), A Cross-Organizational Process Mining Framework
- 05 Shiwei Liu (TU/e), Sparse Neural Network Training with In-Time Over-Parameterization
- 06 Reza Refaei Afshar (TU/e), Machine Learning for Ad Publishers in Real Time Bidding
- 07 Sambit Praharaj (OU), Measuring the Unmeasurable? Towards Automatic Co-located Collaboration Analytics
- 08 Maikel L. van Eck (TU/e), Process Mining for Smart Product Design
- 09 Oana Andreea Inel (VUA), Understanding Events: A Diversity-driven Human-Machine Approach
- 10 Felipe Moraes Gomes (TUD), Examining the Effectiveness of Collaborative Search Engines
- 11 Mirjam de Haas (UT), Staying engaged in child-robot interaction, a quantitative approach to studying preschoolers' engagement with robots and tasks during second-language tutoring
- 12 Guanyi Chen (UU), Computational Generation of Chinese Noun Phrases
- 13 Xander Wilcke (VUA), Machine Learning on Multimodal Knowledge Graphs: Opportunities, Challenges, and Methods for Learning on Real-World Heterogeneous and Spatially-Oriented Knowledge
- 14 Michiel Overeem (UU), Evolution of Low-Code Platforms
- 15 Jelmer Jan Koorn (UU), Work in Process: Unearthing Meaning using Process Mining
- 16 Pieter Gijsbers (TU/e), Systems for AutoML Research
- 17 Laura van der Lubbe (VUA), Empowering vulnerable people with serious games and gamification
- 18 Paris Mavromoustakos Blom (TiU), Player Affect Modelling and Video Game Personalisation
- 19 Bilge Yigit Ozkan (UU), Cybersecurity Maturity Assessment and Standardisation
- 20 Fakhra Jabeen (VUA), Dark Side of the Digital Media - Computational Analysis of Negative Human Behaviors on Social Media
- 21 Seethu Mariyam Christopher (UM), Intelligent Toys for Physical and Cognitive Assessments
- 22 Alexandra Sierra Rativa (TiU), Virtual Character Design and its potential to foster Empathy, Immersion, and Collaboration Skills in Video Games and Virtual Reality Simulations
- 23 Ilir Kola (TUD), Enabling Social Situation Awareness in Support Agents
- 24 Samaneh Heidari (UU), Agents with Social Norms and Values - A framework for agent based social simulations with social norms and personal values
- 25 Anna L.D. Latour (LU), Optimal decision-making under constraints and uncertainty
- 26 Anne Dirkson (LU), Knowledge Discovery from Patient Forums: Gaining novel medical insights from patient experiences
- 27 Christos Athanasiadis (UM), Emotion-aware cross-modal domain adaptation in video sequences
- 28 Onuralp Ulusoy (UU), Privacy in Collaborative Systems
- 29 Jan Kolkmeier (UT), From Head Transform to Mind Transplant: Social Interactions in Mixed Reality
- 30 Dean De Leo (CWI), Analysis of Dynamic Graphs on Sparse Arrays

- 31 Konstantinos Traganas (TU/e), Tackling Complexity in Smart Manufacturing with Advanced Manufacturing Process Management
- 32 Cezara Pastrav (UU), Social simulation for socio-ecological systems
- 33 Brinn Hekkelman (CWI/TUD), Fair Mechanisms for Smart Grid Congestion Management
- 34 Nimat Ullah (VUA), Mind Your Behaviour: Computational Modelling of Emotion & Desire Regulation for Behaviour Change
- 35 Mike E.U. Ligthart (VUA), Shaping the Child-Robot Relationship: Interaction Design Patterns for a Sustainable Interaction

## 2023

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- 2023 01 Bojan Simoski (VUA), Untangling the Puzzle of Digital Health Interventions
- 02 Mariana Rachel Dias da Silva (TiU), Grounded or in flight? What our bodies can tell us about the whereabouts of our thoughts
- 03 Shabnam Najafian (TUD), User Modeling for Privacy-preserving Explanations in Group Recommendations
- 04 Gineke Wiggers (UL), The Relevance of Impact: bibliometric-enhanced legal information retrieval
- 05 Anton Bouter (CWI), Optimal Mixing Evolutionary Algorithms for Large-Scale Real-Valued Optimization, Including Real-World Medical Applications
- 06 António Pereira Barata (UL), Reliable and Fair Machine Learning for Risk Assessment
- 07 Tianjin Huang (TU/e), The Roles of Adversarial Examples on Trustworthiness of Deep Learning
- 08 Lu Yin (TU/e), Knowledge Elicitation using Psychometric Learning
- 09 Xu Wang (VUA), Scientific Dataset Recommendation with Semantic Techniques
- 10 Dennis J.N.J. Soemers (UM), Learning State-Action Features for General Game Playing
- 11 Fawad Taj (VUA), Towards Motivating Machines: Computational Modeling of the Mechanism of Actions for Effective Digital Health Behavior Change Applications
- 12 Tessel Bogaard (VUA), Using Metadata to Understand Search Behavior in Digital Libraries
- 13 Injy Sarhan (UU), Open Information Extraction for Knowledge Representation
- 14 Selma Čaušević (TUD), Energy resilience through self-organization
- 15 Alvaro Henrique Chaim Correia (TU/e), Insights on Learning Tractable Probabilistic Graphical Models
- 16 Peter Blomsma (TiU), Building Embodied Conversational Agents: Observations on human nonverbal behaviour as a resource for the development of artificial characters

# D

## List of scientific publications

*As an example I've added the publications for my dissertation, these are to many. Do not expect to have to do so many! These only led to hassle with my supervisors.*

Laurens Stoop

Combined first authors are labelled with an asterics ( $\star$ ), the corresponding author is labelled with  $\square$ .

### Research articles

6. **Laurens P. Stoop $^{\star, \square}$** , Karin van der Wiel, William Zappa, Arno Haverkamp, Ad J. Feelders, Machteld A. van den Broek,  
*The Climatological Renewable Energy Expectation Index*,  
DOI:10.48550/arXiv  
In review at Environmental Research Letters, a preprint is available on arXiv (2023).
5. Rogier H. Wuijts $^{\star}$ , **Laurens P. Stoop $^{\star, \square}$** , Jing Hu, Arno Haverkamp, Frank Wiersma, William Zappa, Gerard van der Schrier, Marjan van den Akker, Machteld A. van den Broek,  
*Linking Unserved Energy to Weather Regimes*,  
DOI:10.48550/arXiv.2303.15492  
In review at Earth's Future, a preprint is available on arXiv (2023).
4. **Laurens P. Stoop $^{\square}$** , Erik Duijm, Ad J. Feelders, Machteld A. van den Broek  
*Detection of Critical Events in Renewable Energy Production Time Series*,  
DOI:10.1007/978-3-030-91445-5\_7  
AALTD: ECML PKDD Workshop (2021).
3. Inès Harang, Fabian Heymann, **Laurens P. Stoop $^{\square}$** ,  
*Incorporating climate change effects into the European power system adequacy assessment using a post-processing method*,  
DOI:10.1016/j.segan.2020.100403  
Sustainable Energy, Grids and Networks (2020).

2. Karin van der Wiel<sup>✉</sup>, Hannah C. Bloomfield, Robert W. Lee, **Laurens P. Stoop**, Russell Blackport, James A. Screen, Frank M. Selten,  
*The influence of weather regimes on European renewable energy production and demand*,  
DOI:10.1088/1748-9326/ab38d3  
Environmental Research Letters (2019).
1. Karin van der Wiel<sup>✉</sup>, **Laurens P. Stoop**, Bas R.H. van Zuijlen, Russell Blackport, Machteld A. van den Broek, Frank M. Selten,  
*Meteorological conditions leading to extreme low variable renewable energy production and extreme high energy shortfall*,  
DOI:10.1016/j.rser.2019.04.065  
Renewable and Sustainable Energy Reviews (2019).

## Perspectives

3. Laurent Dubus<sup>✉</sup>, David J. Brayshaw, Daniel Huertas-Hernando, David Radu, Justin Sharp, William Zappa, **Laurens P. Stoop**,  
*Towards a future-proof climate database for European energy system studies*,  
DOI:10.1088/1748-9326/aca1d3  
Environmental Research Letters (2022).
2. Michael T. Craig<sup>✉</sup>, Jan Wohland<sup>✉,✉</sup>, **Laurens P. Stoop**<sup>✉</sup>, Alexander Kies, Bryn Pickering, Hannah C. Bloomfield, Jethro Browell, Matteo De Felice, Chris J. Dent, Adrien Deroubaix, Felix Frischmuth, Paula L.M. Gonzalez, Aleksander Grochowicz, Katharina Gruber, Philipp Härtel, Martin Kittel, Leander Kotzur, Inga Labuhn, Julie K. Lundquist, Noah Pflugradt, Karin van der Wiel, Marianne Zeyringer, David J. Brayshaw,  
*Overcoming the disconnect between energy system and climate modeling*,  
DOI:10.1016/j.joule.2022.05.010  
Joule (2022).
1. Hannah C. Bloomfield<sup>✉</sup>, Paula L.M. Gonzalez, Julie K. Lundquist, **Laurens P. Stoop**, Jethro Browell, Roger Dargaville, Matteo De Felice, Katharina Gruber, Adriaan Hilbers, Alex Kies, Mathaios Panteli, Hazel E. Thornton, Jan Wohland, Marianne Zeyringer, David J. Brayshaw,  
*The importance of weather and climate to energy systems: a workshop on next generation challenges in energy-climate modeling*,  
DOI:10.1175/BAMS-D-20-0256.1  
Bulletin of the American Meteorological Society (2021).

## Datasets

3. *Weather Regime definition for the Euro-Atlantic sector (Daily, DFJM, 1979–2018) used for ACDC-ESM (v1.0)*,  
Swinda K.J. Falkena, **Laurens P. Stoop**<sup>✉</sup>, Zenodo (2023).  
DOI:10.5281/zenodo.7782226
2. *Hydropower dataset of hourly inflow values for European bidding zones for ACDC-ESM (v1.0)*,  
**Laurens P. Stoop**<sup>✉</sup>, Zenodo (2023).  
DOI:10.5281/zenodo.7766457
1. *Energy Climate dataset consistent with ENTSO-E TYNDP2020 studies (CSV & NetCDF) for ACDC-ESM (v1.0)*,  
**Laurens P. Stoop**<sup>✉</sup>, Zenodo (2022).  
DOI:10.5281/zenodo.7390479

# E

## Curriculum Vitæ

## Your First Names Lastname

YYYY Born in City, Country.

### Education

YYYY–YYYY Masters in Kick-Ass Awesomeness

Utrecht University, Utrecht

*Thesis:* Snappy title for cool work

*Supervisors:* S. Up & E.R. Visor

YYYY–YYYY Bachelors in Awesomeness

Utrecht University, Utrecht

*Thesis:* Development of an fancy framework

*Supervisors:* A. Person & A. Nother-Person

YYYY–YYYY Voorbereidend Wetenschappelijk Onderwijs (VWO)

Some School, City

### Work

YYYY–present New Job Title

Important Company That Pays Your Bills

YYYY–YYYY PhD Candidate

Some Department, Utrecht University

### Volunteering work

YYYY–YYYY Helping Handy

Very Nice Organisation

# Acknowledgements

Van je collega's moet je het hebben

What about very old friends?

Blood is thicker than water / Home is where the heart is

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

Shit Academics Say





Utrecht University