

Research Master Thesis

New Insights in Computational Lexicology

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requirements for the degree of*

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Abstract

Declaration of Authorship

I, John Bumblebee Good, declare that this thesis titled, title and the work presented in it are my own. I confirm that:

- This work was done wholly or mainly while in candidature for a degree degree at this University.
- Where any part of this thesis has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated.
- Where I have consulted the published work of others, this is always clearly attributed.
- Where I have quoted from the work of others, the source is always given. With the exception of such quotations, this thesis is entirely my own work.
- I have acknowledged all main sources of help.
- Where the thesis is based on work done by myself jointly with others, I have made clear exactly what was done by others and what I have contributed myself.

Date:

Signed:

Acknowledgments

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Chapter 1

Introduction

This document provides a template for Master theses at the CLTL, as well as a number of \LaTeX tips, which are presented in chapter 2.

To use this template as a starting point for writing your thesis:

- fill in the appropriate fields (name, title, etc.) in `mathesis.tex`;
- fill in the file stubs in the `tex` folder: `abstract.tex`, `acknowledgments.tex`, etc.
- replace `bib/example.bib` by your own `bib` file(s);
- and anything else needed to make this template your thesis. All the best!

Chapter 2

Latex tips

This chapter provides tips for using L^AT_EX for writing your thesis, as well as more general tips for bibliographical references.

2.1 Latex resources

Latex is extremely well documented. The following resources will all give you an easy-to-step-in introduction, and an extensive reference to L^AT_EX:

- the *Not so short introduction to L^AT_EX2 ϵ* : <https://tobi.oetiker.ch/lshort/lshort.pdf>
- the L^AT_EX wiki book: <https://en.wikibooks.org/wiki/LaTeX>
- the Overleaf documentation: <https://www.overleaf.com/learn>

Additionally, the *Comprehensive L^AT_EX symbols list* is worth a booktab. Finally, L^AT_EX has a lot of packages to offer for additional functionality, all stored on CTAN: <https://www.ctan.org>.

2.2 Structure of a L^AT_EX project

Your thesis may run into more than 50 pages, and include as many pictures. It is therefore recommended to structure your L^AT_EX thesis file into parts (a natural division consists in keeping a separate file for each chapter).

For this template, the file `mathesis.tex` is the main file. It links to content files stored in the `tex` folder. You will find there files for, e.g., the abstract and acknowledgments, but you can also add your chapter files. Likewise, you can store images in the `img` folder.

L^AT_EX documents can be included into one another using the `\include` command: in the main file `mathesis.tex`, the assertion `\include{tex/abstract}` looks for the file `tex/abstract.tex` and inserts its content into `mathesis.tex`.

2.3 Citations

2.3.1 The natbib package

The `natbib` package allows to refer to BibTeX bibliographical references and format them for insertion in a L^AT_EX document. BibTeX bibliography items are stored in a `.bib` file.

For instance, the example bibliography `./bib/example.bib` contains two entries:

```
@inproceedings{sommerauer-etal-2019-towards,
  Address = {Wroclaw, Poland},
  Author = {Sommerauer, Pia and Fokkens, Antske and Vossen, Piek},
  Booktitle = {Proceedings of the 10th Global Wordnet Conference},
  Pages = {85--95},
  Title = {Towards Interpretable, Data-derived Distributional
Semantic Representations for Reasoning: A Dataset
of Properties and Concepts},
  Url = {https://clarin-pl.eu/dspace/handle/11321/718},
  Year = {2019},
  Bdsk-Url-1 = {https://clarin-pl.eu/dspace/handle/11321/718}}

@inproceedings{van-aggelen-etal-2019-larger,
  Address = {Turku, Finland},
  Author = {van Aggelen, Astrid and Fokkens, Antske and Hollink,
Laura and van Ossenbruggen, Jacco},
  Booktitle = {Proceedings of the 22nd Nordic Conference on
Computational Linguistics},
  Pages = {44--54},
  Publisher = {Link{"o"}ping University Electronic Press},
  Title = {A larger-scale evaluation resource of terms and
their shift direction for diachronic lexical semantics},
  Url = {https://www.aclweb.org/anthology/W19-6105.pdf},
  Year = {2019},
  Bdsk-Url-1 = {https://www.aclweb.org/anthology/W19-6105.pdf}}
```

The first line of each entry provides a label for references: *sommerauer-etal-2019-towards*, *van-aggelen-etal-2019-larger*. These labels can be referred to in the L^AT_EX document to provide formatted bibliographical references.

The two most commonly employed commands are `\cite` (or equivalently `\citet`) and `\citep`. For instance, `\citet{sommerauer-etal-2019-towards}` will appear as Sommerauer et al. (2019), while `\citep{sommerauer-etal-2019-towards}` will appear as (Sommerauer et al., 2019).

You can cite several papers with a single citation. For instance, the command `\citep{sommerauer-etal-2019-towards,van-aggelen-etal-2019-larger}` results in (Sommerauer et al., 2019; van Aggelen et al., 2019).

See the Natbib package documentation or the usual L^AT_EX references for more information.

2.3.2 Citing conventions

It is convention to integrate the name of the authors in the text as much as possible, and to use `\cite` as only the year of the reference is then parenthesized. The `\citep` can be used when the name of the authors is not directly part of the sentence.

For instance, you would use `\cite` for “the work of van Aggelen et al. (2019)”, and `\citep` for “...research on diachronic lexical semantics (van Aggelen et al., 2019)”.

2.3.3 Bibliography management

We recommend that you use a bibliography management tool to edit `bib` files, like BibDesk for Mac, or JabRef.

This will provide you with a better overview of your bibliography as it grows, while facilitating the addition of new entries—this is as simple as copying the `bibtex` reference of an article and pasting it in the *bibtex source* field of your management tool.

Note that you can refer to distinct `bib` files in a \LaTeX document. Suppose for instance that you would like to keep apart references from the background chapter and from the other chapters, in `background.bib` and `research.bib`. You can collect both files with: `\bibliography{bib/background,bib/research}`.

Note however that \LaTeX will issue a warning if citations overlap between `bib` files.

Bibliography

- P. Sommerauer, A. Fokkens, and P. Vossen. Towards interpretable, data-derived distributional semantic representations for reasoning: A dataset of properties and concepts. In *Proceedings of the 10th Global Wordnet Conference*, pages 85–95, Wroclaw, Poland, 2019. URL <https://clarin-pl.eu/dspace/handle/11321/718>.
- A. van Aggelen, A. Fokkens, L. Hollink, and J. van Ossenbruggen. A larger-scale evaluation resource of terms and their shift direction for diachronic lexical semantics. In *Proceedings of the 22nd Nordic Conference on Computational Linguistics*, pages 44–54, Turku, Finland, 2019. Linköping University Electronic Press. URL <https://www.aclweb.org/anthology/W19-6105.pdf>.