

First line of title
second line of title

Master Thesis in Biostatistics (STA495)

by

Name of student
Matriculation number

supervised by

Name of responsible supervisor (with title)
Name of supervisor (with title and affiliation if external)

Zurich, month year

p-values:
their use, abuse and proper use
illustrated with seven facets

Mäxli Musterli

Version October 13, 2025

Contents

Preface	iii
1 Introduction	1
2 Data	3
2.1 Citations	3
3 Results	5
4 Discussion and Outlook	7
5 Conclusions	9
A Appendix	11
Bibliography	13

Preface

Howdy!

Max Muster
June 2018

Chapter 1

Introduction

Why, what and how...

Chapter 2

Data

Maybe it is the methods section. Here however, we give a couple hints. Note that you can wisely use *preamble*-chunks. Minimal, is likely:

```
library(knitr)
opts_chunk$set(
  fig.path='figure/ch02_fig',
  self.contained=FALSE,
  cache=TRUE
)
```

Defining figure options is very helpful:

```
library(knitr)
opts_chunk$set(fig.path='figure/ch02_fig',
  echo=TRUE, message=FALSE,
  fig.width=8, fig.height=2.5,
  out.width='\\textwidth-3cm',
  message=FALSE, fig.align='center',
  background="gray98", tidy=FALSE, #tidy.opts=list(width.cutoff=60),
  cache=TRUE
)
options(width=74)
```

This options are best placed in the main document at the beginning. Otherwise a `cache=FALSE` as knitr option is necessary to overrule a possible `cache=TRUE` flag.

Notice how in Figure 2.1 everything is properly scaled.

2.1 Citations

Recall the difference between `\citet{}` (e.g., Chu and George (1999)), `\citep{}` (e.g., (Chu and George, 1999)) and `\citealp{}` (e.g., Chu and George, 1999). For simplicity, we include here all references in the file `biblio.bib` with the command `\nocite{*}`.

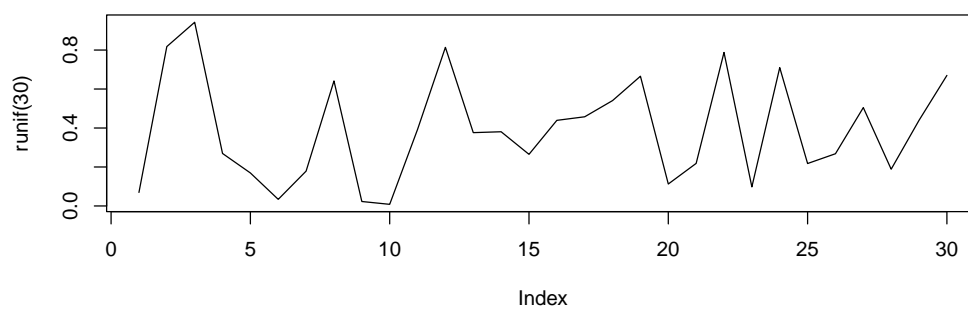


Figure 2.1: Test figure to illustrate figure options used by knitr.

Chapter 3

Results

Chapter 4

Discussion and Outlook

Chapter 5

Conclusions

Appendix A

Appendix

Maybe some R code here, probably a `sessionInfo()`

Bibliography

- Chu, E. and George, A. (1999). *Inside the FFT Black Box: Serial and Parallel Fast Fourier Transform Algorithms*. CRC Press. [3](#)
- Collett, D. (2014). *Modelling Survival Data in Medical Research*. Chapman & Hall/CRC Texts in Statistical Science. Taylor & Francis, third edition.
- Hurrell, J. W., Kushnir, Y., Ottersen, G., and Visbeck, M. (2013). *An Overview of the North Atlantic Oscillation*, 1–35. American Geophysical Union.
- Kratzer, G. and Furrer, R. (2018). *varrank: an R package for variable ranking based on mutual information with applications to observed systemic datasets*. R package version 0.3.
- Porcu, E., Furrer, R., and Nychka, D. (2020). 30 years of space-time covariance functions. *Wiley Interdisciplinary Reviews. Computational Statistics*, **13:e1512**, 1–24.
- Wang, C. and Furrer, R. (2020). Monte Carlo permutation tests for assessing spatial dependence at different scales. In La Rocca, M., Liseo, B., and Salmaso, L., editors, *Nonparametric Statistics. ISNPS 2018. Springer Proceedings in Mathematics & Statistics*, volume 339, 503–511. Springer.

