

PhD thesis: residue-residue contact prediction

Susann Vorberg

2017-07-04

Bayesian Model for Prediction of Protein Residue-Residue Contacts

Susann Vorberg

15.10.2017

Dissertation zur Erlangung des Doktorgrades der Fakultät für Chemie und
Pharmazie der Ludwig-Maximilians-Universität München

Bayesian Model for Prediction of Protein Residue-Residue Contacts

vorgelegt von
Susann Vorberg
aus Leipzig, Germany

Muenchen, den 15.10.2017

Erklärung

Diese Dissertation wurde im Sinne von §7 der Promotionsordnung vom 28. November 2011 von Dr. Johannes Soeding betreut.

Eidesstattliche Versicherung

Diese Dissertation wurde eigenständig und ohne unerlaubte Hilfe erarbeitet.

.....
Ort, Datum

.....
Susann Vorberg

Dissertation eingereicht am: 15.10.2017

Erstgutachter: Dr. Johannes Soeding

Zweitgutachter: Prof. Dr. Julien Gagneur

Tag der mündlichen Prüfung: 15.12.2017

Contents

Acknowledgements	v
Summary	vii
Introduction	ix
Literature	xi
Methods	xiii
Applications	xv
0.1 Example one	xv
0.2 Example two	xv
Final Words	xvii

Acknowledgements

I thank the world

Summary

Abstract in engl and in german???

Introduction

jdahaksdh

You can label chapter and section titles using `{#label}` after them, e.g., we can reference Chapter . If you do not manually label them, there will be automatic labels anyway, e.g., Chapter .

Figures and tables with captions will be placed in `figure` and `table` environments, respectively.

```
par(mar = c(4, 4, .1, .1))  
plot(pressure, type = 'b', pch = 19)
```

-> here I would change something

Reference a figure by its code chunk label with the `fig:` prefix, e.g., see Figure 1. Similarly, you can reference tables generated from `knitr::kable()`, e.g., see Table 1.

```
knitr::kable(  
  head(iris, 20), caption = 'Here is a nice table!',  
  booktabs = TRUE  
)
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2016) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).



Figure 1: Here is a nice figure!

Table 1: Here is a nice table!

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa

Literature

Here is a review of existing methods.

Methods

We describe our methods in this chapter.

Applications

Some *significant* applications are demonstrated in this chapter.

0.1 Example one

0.2 Example two

Final Words

We have finished a nice book.

Bibliography

Xie, Y. (2015). *Dynamic Documents with R and knitr*. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2016). *bookdown: Authoring Books and Technical Documents with R Markdown*. R package version 0.3.9.