

# PhD thesis: residue-residue contact prediction

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# **Bayesian Model for Prediction of Protein Residue-Residue Contacts**

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15.10.2017



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

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# **Bayesian Model for Prediction of Protein Residue-Residue Contacts**

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vorgelegt von  
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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:

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# Chapter 1

## Acknowledgements

I thank the world





# Chapter 2

## Summary

Abstract in engl and in german???



# Chapter 3

## Introduction

jdahaksdh

You can label chapter and section titles using `{#label}` after them, e.g., we can reference Chapter 3. If you do not manually label them, there will be automatic labels anyway, e.g., Chapter 5.

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 3.1. Similarly, you can reference tables generated from `knitr::kable()`, e.g., see Table 3.1.

```
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).

Table 3.1: 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

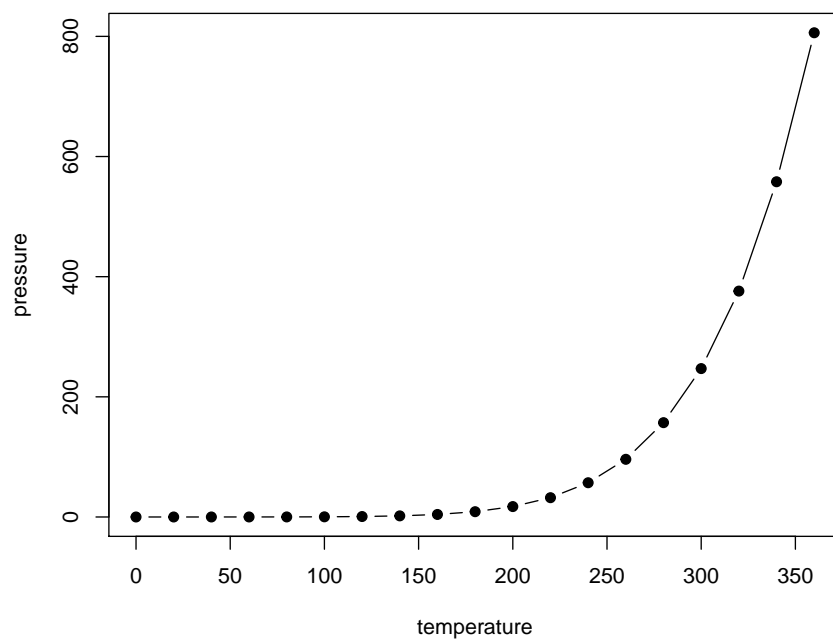


Figure 3.1: Here is a nice figure!



# Chapter 4

## Literature

Here is a review of existing methods.





# Chapter 5

## Methods

We describe our methods in this chapter.



# Chapter 6

## Applications

Some *significant* applications are demonstrated in this chapter.

### 6.1 Example one

### 6.2 Example two



# Chapter 7

## 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.