

# Florence Bockting



## CONTACT

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[florence-bockting.github.io](https://github.com/florence-bockting)

## LANGUAGES

German (mother language)

English (fluent)

French (basics)

## PROGRAMMING

R, Python, TensorFlow, STAN

RShiny Apps, RMarkdown,

Jupyternotebook

HTML, CSS, JS

## FURTHER SKILLS

MS Office, LaTeX

Gimp

Zotero

Git, GitHub, GitHub Pages

Quarto, Sphinx

## EDUCATION

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Research assistant in the working group computational statistics (Prof. Dr. Paul-Christian Bürkner)

since 06/2023 | Statistics faculty | TU Dortmund

Aug 2022 - May 2023 | SC SimTech | University of Stuttgart

Research assistant in the working group: psychological methods (Prof. Dr. Daniel W. Heck)

Oct 2020 - July 2022 | Psychology faculty | University of Marburg

Master studies in cognitive science with majors in artificial intelligence and cognitive psychology

Graduated with distinction | Sept 2018 - Sept 2020 | University of Osnabrück

Bachelor studies in business psychology with majors in market research and consumer behavior

Graduated with distinction | Aug 2014 - Aug 2018 | University of applied science Harz, Wernigerode

Vocational training as marketing communications specialist

Aug 2012 - July 2014 | Dresden Informatik GmbH

## EXPERIENCES

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**Tutor & student assistant (2015 - 2020)**

for various lectures and seminars in the fields of: data ethics, statistics, computational data analysis, Bayesian data analysis, general psychology, experimental psychology

**Research assistant (2018/2019)**

Qualitative and quantitative market research in the health care sector, Produkt+Markt GmbH, Osnabrück

**Project member (2018)**

Project: Development of a Matching Platform for Student Skills. My main task involved conducting needs analysis and conceptualizing the design of the matching platform.

**Internships**

2017 | qualitative market research in the health care sector, Ipsos GmbH, Hamburg

2016 | Chair of general psychology and methodology, Prof. Dr. Claus-Christian Carbon, University of Bamberg

## TEACHING

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### Master Seminar Multilevel Modelling (2023/24)

Targeting students in the field of Data Science, Statistics, and Econometrics. Introduction to the theory and analysis of multilevel models using R.

### Programming course: Introduction into Python (2023/24)

Students learn the fundamentals of the Python programming language as well as tools for documentation with Sphinx, testing with pytest, and version control using Git and GitHub.

### Supervision of theses (2024)

Influence of different approaches for setting initial values in hyperparameter optimization with SGD | Bachelor thesis | TU Dortmund university

Sensitivity analysis and performance evaluation of varying upper thresholds for discrete likelihoods using the softmax-gumbel trick | Master thesis | TU Dortmund university

### Supervision of theses (2021/22)

The influence of response scales on the knowledge gain of underlying cognitive mechanisms: The role of uncertainty and truth perception in the Truth Effect | Bachelor thesis | University of Marburg

Empirical test of core assumptions of the Referential Theory: Influence of repetition on perceived coherence | Bachelor thesis | University of Marburg

Identification and testing of relevant psychological factors on truth judgments and the truth effect according to the Referential Theory | Bachelor thesis | University of Marburg

### Supervision of thesis (2020/21)

Truth Effect – The role of the response scale in truth effect designs with short delay | Bachelor thesis | University of Marburg

## PUBLICATIONS & TALKS

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**Bockting, F.**, Radev S. T., & Bürkner P. C. (2024) Contributed talk: Normalizing Flows for Simulation Based Expert Prior Elicitation. Presented at MathPsych (Society for Mathematical Psychology)

**Bockting, F.**, Radev S. T., & Bürkner P. C. (2024). Contributed talk: Simulation-Based Prior Knowledge Elicitation for Parametric Bayesian Models. Presented at ISBA (International Society for Bayesian Analysis)

**Bockting, F.**, Radev, S. T., & Bürkner, P. C. (2024). Invited talk: Simulation-Based Prior Knowledge Elicitation for Parametric Bayesian Models. First presented at Bayes@Lund.

**Bockting, F.**, Radev, S. T. & Bürkner, P. C. (2024). Simulation-based prior knowledge elicitation for parametric Bayesian models. *Scientific Reports* 14, 17330 (2024). <https://doi.org/10.1038/s41598-024-68090-7>

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Heck, D. W., & **Bockting, F.** (2023). Benefits of Bayesian model averaging for mixed-effects modeling. *Computational Brain & Behavior*, 6(1), 35-49.

<https://doi.org/10.1007/s42113-021-00118-x>

van Doorn, J., Haaf, J. M., Stefan, A. M., Wagenmakers, E. J., Cox, G. E., Davis-Stober, C. P., ..., **Bockting, F.** & Aust, F. (2023). Bayes factors for mixed models: A discussion. *Computational Brain & Behavior*, 6(1), 140-158.

<https://doi.org/10.1007/s42113-021-00113-2>

**Bockting, F.** & Heck, D. W. (2021). Measuring Individual Differences in the Truth Effect: A formal analysis. Fast Talk at MathPsych

Stephan, A., Walter, S., Anton, T., Barkmann, M., **Bockting, F.**, Dielen, G., Dziomba, L., Lang, A., Ruland, M., & Schütze, P. (2021). Nachwort. In Turing A. M. *Computing Machinery and Intelligence. Können Maschinen Denken?* (pp. 131-201). English/German. Reclam.

## WORKSHOPS

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|-----------|---|
| Sept 2024 | First Research Software Engineering summer school at Karlsruhe Institute of Technology (KIT)  |
| Oct 2022  | Theory of science, Prof. Dr. Zoglauer, University of Stuttgart  |
| Oct 2022  | Foundations of Deep Learning for the Social Sciences   University of Tübingen   |
| Sept 2022 | The Statistics Wars and Their Casualties   Prof. Dr. Deborah Mayo, Prof. Dr. Roman Frigg, & Prof. Dr. Margherita Harris                               |
| Sept 2022 | Advanced Bayesian Data Analysis   Dr. Bruno Nicenboim   University of Potsdam   |
| Feb 2022  | Interval Hypothesis Testing   Prof. Dr. Daniël Lakens   University of Eindhoven   |
| Dec 2021  | Robust Cognitive Bayesian Analysis   Prof. Dr. Jeffrey N. Rouder   University of California   |
| Oct 2021  | Bayesian evaluation of (informative) hypotheses   Prof. Dr. Herbert Hoijtink   University of Utrecht  |
| Jun 2021  | Multinomial-Processing-Tree Modeling - Basic Methods and Recent Advances   Prof. Dr. Edgar Erdfelder & Prof. Dr. Daniel Heck   University of Mannheim |
| May 2021  | Single- vs. Dual-Process Theories   Prof. Dr. Mandy Hütter   University of Tübingen   |
| Feb 2021  | Introduction to Bayesian Statistics   Prof. Dr. Daniel Heck   University of Marburg   |

## **SCHOLARSHIP**

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### **Studienstiftung des deutschen Volkes (2015 - 2020)**

scholarship for excellent academic achievement; awarded to <0.5% of university students in Germany

## **OTHER EXPERIENCES**

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### **OpenCode Task Force (2021/22)**

Assistance to fellow doctoral candidates in the Research Training Group with programming in R and the analysis of their studies, University of Marburg Doctoral Initiative

### **Internship Coordinator (2021)**

Supporting psychology students with questions regarding their mandatory internships.

### **Volunteer work at Kana (2021)**

Participating in a soup kitchen for homeless people in Dortmund.

This CV was last updated on 2024/09/15