

# Curriculum Vitae

Steven Marcel Bißantz

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## DOCTORAL RESEARCH

### Measurement & Replicability in The Sciences – A metascientific investigation in the role of measurement when replicating empirical findings

In particular, my research focuses on how (a) modifying validated item-based measures or (b) using unvalidated scales affects the replicability of empirical findings. In addition, I am interested in the prediction of replication success with machine learning models.

## WORK EXPERIENCE

RPTU Kaiserslautern-Landau  
**PhD Student, Psychology**  
(OCT 2021 – PRESENT)  
(PROF. DR. EUNIKE WETZEL)

Mainly, I am involved in meta-science; but I also learn about quantitative methods and teach test theory, diagnostics, and R.

Center of Educational Research  
**Research Assistant, Psychology**  
(MAY 2019 – JUL 2021)  
(ZEPE)

I researched mode effects in performance tests (VERA) using structural equation models and multilevel modeling.

University of Mannheim  
**Research Assistant, Sociology**  
(SEP 2016 – APR 2018)  
(PROF. DR. IRENA KOGAN)

Data analysis, literature research, and the administration of the internet presence in English and German were among my tasks.

University of Mannheim  
**Research Assistant, Sociology**  
(SEP 2016 – FEB 2017)  
(PROF. DR. FRANK KALTER)

As a tutor, I reviewed the course material content, clarified unanswered questions, and deepened the understanding of my fellow students in complementary teaching sessions.

Mannheim Center for European Social Research  
**Research Assistant, Sociology**  
(APR 2015 – JUL 2015)  
(MZES)

After theoretical and practical training, I conducted computer-assisted telephone interviews (CATI).

## MEMBERSHIPS

Statistical Modeling in Psychology  
**Associate Member of the DFG Research Training Group**  
(OCT 2022 – PRESENT)  
(SMIP)

RPTU Open Science Commission  
**Member and vice chairman, since 2023**  
(JAN 2022 – PRESENT)  
(OSC)

## EDUCATION

2019-2021 **M.A., Social Sciences** (1.0)  
Department of Social Sciences  
University of Koblenz-Landau

2018-2019 **Survey Statistics**  
Department of Economics  
University of Bamberg

2014-2018 **B.A., Sociology** (1.6)  
Department of Sociology  
University of Mannheim

## PUBLICATIONS

**Bißantz, S.** (2021). *elistr*: Exploratory Likert Scaling in R. R package version 0.2.0. <https://CRAN.R-project.org/package=elistr>

Wagner, I., Loesche, P. & **Bißantz, S.** (2021). Low-stakes performance testing in Germany by the VERA assessment: analysis of the mode effects between computer-based testing and paper-pencil testing. *European Journal of Psychology of Education*. 10.1007/s10212021-00532-6

## TEACHING EXPERIENCE

2021, 2022 (WS) Test theory & assessment (EXERCISE)  
2022 (WS) Data analysis in R (EXERCISE)  
2022, 2023 (SS) Test theory & assessment (SEMINAR)

## COMPUTER SKILLS

OPERATING SYSTEMS Linux, macOS & Windows  
LINUX DISTRIBUTIONS Fedora, openSUSE & Arch  
STATISTICAL SOFTWARE R, Stan, Stata & SPSS  
MISCELLANEOUS  $\LaTeX$ , Git, Vim & Emacs

*Proficiency: Server administrator at our lab "Personality, Psychological Assessment, and Psychological Methods" at the RPTU Kaiserslautern-Landau.*

## RESEARCH INTERESTS

**Metascience** What is the effect of scale modifications on inferences, replicability, and effect-size heterogeneity?

**Bayesian Data Analysis** How to maximize information entropy using Bayesian updating?

**Machine Learning** What are efficient ways to minimize cross-entropy in prediction tasks?