

# 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

My research focuses on the role of measurement in replicability. In particular, I concentrate on how (a) modifying validated item-based measurements or (b) the practice of tossing various items together in a “scale” (i.e., omitting the validation process) affects the replicative success of a study. Despite the replicative success, I illuminate the influence of these ad-hoc and post-hoc scales on effect size estimates and their induced heterogeneity.

## WORK EXPERIENCE

University of Koblenz-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  
(ZEPF)

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

University of Koblenz-Landau  
**Member of the Open Science Commission**

JAN 2022 – PRESENT

At the OSC, we promote the implementation of open science practices.

## 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 (WS)	Test theory & assessment	(EXERCISE)
2022 (IN PREP.)	Data analysis in R	(EXERCISE)
2022 (IN PREP.)	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 University of Koblenz-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?