Julius M. Pfadt

Curriculum Vitae

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Nationality German

Born February 1st, 1992

Education

2018 - present **Doctoral candidate**, *Psychology*, Department of Psychological Research Methods,

Ulm University

Project title: The Present and Future of Reliability Analysis: Advances in Theory and

Practice

Supervisor: Prof. Dr. Morten Moshagen

2016 - 2018 Master of Science, Psychology, Ulm University

Thesis title: The Performance of Several Chi-Square Corrections for SEM - Evaluation of

Two Data Generation Methods for Simulating Multivariate Non-Normal Data

Supervisor: Prof. Dr. Morten Moshagen

2012 - 2016 Bachelor of Science, Psychology, Ulm University

Thesis title: A Scale for the Measurement of Hate: The Development of a Social-

Psychological Instrument

Supervisors: Dr. Stefan Pfattheicher, Prof. Dr. Johannes Keller

Experience

2019 - present Programmer, Jeffrey's Amazing Statistics Program (JASP), University of

Amsterdam

Contributing to multiple modules and moderating GitHub issues

2019 - 2020 **Organizer**, Student admissions test, Ulm University

Piloting a new student admissions test for psychology with a large sample of bachelor

students

2017 - 2018 Research Assistant, Department of Psychological Research Methods, Ulm

University

2016 - 2017 Research Intern, Department of Psychological Methods, University of Amsterdam

Topic: Bayesian statistics

Supervisor: Prof. Dr. Eric-Jan Wagenmakers

Teaching

Instructor

2016 - 2017 Applications of Multivariate Statistics in R, Master course, Ulm University

2018 - 2019

Publications

- In press **Pfadt**, **J. M.**, van den Bergh, D., Sijtsma, K., & Wagenmakers, E.-J. (in press). A tutorial on Bayesian single-test reliability analysis with JASP. *Behavior Research Methods*. https://doi.org/10.3758/s13428-021-01778-0
 - **Pfadt**, **J. M.**, van den Bergh, D., & Moshagen, M. (in press). Classical and Bayesian uncertainty intervals for the reliability of multidimensional scales. *Structural Equation Modeling: A Multidisciplinary Journal*. https://doi.org/10.1080/10705511.2022.2124162
 - Sijtsma, K., & **Pfadt**, **J. M.** (in press). Reliability. In R. Tierney, F. Rizvi, & K. Ercikan (Eds.), *International Encyclopedia of Education* (4th ed.). Elsevier Science. https://doi.org/10.1016/B978-0-12-818630-5.10004-1
 - 2022 Pfadt, J. M., & Sijtsma, K. (2022). Statistical properties of lower bounds and factor analysis methods for reliability estimation. In M. Wiberg, D. Molenaar, J. González, J.-S. Kim, & H. Hwang (Eds.), Quantitative psychology: The 86th Annual Meeting of the Psychometric Society, virtual, 2021 (pp. 51–63). Springer International Publishing. https://doi.org/10.1007/978-3-031-04572-1_5
 - **Pfadt**, **J. M.**, van den Bergh, D., & Goosen, J. (2022). *Bayesrel: Bayesian reliability estimation* (Version 0.7.5) [R-package]. CRAN. https://CRAN.r-project.org/package=Bayesrel
 - **Pfadt**, **J. M.**, van den Bergh, D., Sijtsma, K., Moshagen, M., & Wagenmakers, E.-J. (2022). Bayesian estimation of single-test reliability coefficients. *Multivariate Behavioral Research*, *57*(4), 620–641. https://doi.org/10.1080/00273171.2021. 1891855
 - 2021 Sijtsma, K., & **Pfadt**, **J. M.** (2021a). Part II: On the use, the misuse, and the very limited usefulness of Cronbach's alpha: Discussing lower bounds and correlated errors. *Psychometrika*, *86*(4), 843–860. https://doi.org/10.1007/s11336-021-09789-8
 - Sijtsma, K., & **Pfadt**, **J. M.** (2021b). Rejoinder: The future of reliability. *Psychometrika*, 86(4), 887–892. https://doi.org/10.1007/s11336-021-09807-9

Presentations

2021 International Meeting of the Psychometric Society (IMPS), Virtual Conference

Presentation: The Reliability of Multidimensional Scales: A Comparison of Confidence Intervals and a Bayesian Alternative

Reviewing

The British Journal of Mathematical and Statistical Psychology Structural Equation Modeling: A Multidisciplinary Journal

Software

2019 - present Bayesrel, R-package

Creator and maintainer of the R-package for Bayesian reliability estimation

2020 - present Reliability and Factor modules in JASP, Statistics program

Maintainer and contributor