

# Martin Schultze

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## Education

- 2014–2017 **PhD Student**, *Freie Universität Berlin*, Berlin.  
2006–2012 **Diploma in Psychology**, *Freie Universität Berlin*, Berlin.  
1999–2005 **High-School**, *Charles Darwin Oberschule*, Berlin.

## Theses

### Doctoral-Thesis

- Title *Constructing Subtests Using Ant Colony Optimization*  
Advisors Prof. Dr. Michael Eid and Prof. Dr. Tobias Koch

### Diploma-Thesis

- Title *Evaluating What the Crowd Says: A longitudinal structural equation model for exchangeable and structurally different methods for evaluating interventions*  
Advisors Prof. Dr. Christian Geiser and Prof. Dr. Michael Eid

## University Experience

- since 2018 **Assistant Professor**, *Faculty for Psychological Methods with Interdisciplinary Focus, Goethe Universität*, Frankfurt am Main.
- 2012–2018 **Research Associate**, *Department of Education and Psychology, Faculty for Methods and Evaluation / fu:stat, Freie Universität Berlin*, Berlin.  
Statistics and methods consulting on over 500 psychological and educational research projects and theses
- 2011 **Internship**, *Quantative Psychology Program, Arizona State University*, Tempe, USA.
- 2010–2012 **Student Assistant**, *Department of Education and Psychology, Faculty for Methods and Evaluation, Freie Universität Berlin*, Berlin.  
DFG-funded project for the development of longitudinal MTMM models
- 2007–2009 **Student Assistant**, *Department of Education and Psychology, Faculty für Developmental Science and Applied Developmental Psychology, Freie Universität Berlin*, Berlin.

## Current Positions

- since 2019 **Spokesperson**, *Section "Methods and Evaluation" of the German Psychological Association*.
- since 2019 **Member**, *Society for the Improvement of Psychological Science*.
- since 2018 **Advisory Board**, *StepUp! Individuelle Berufswahlkompetenz stärken*.
- since 2018 **Member**, *Frankfurt Open Science Initiative*.
- 2018 **Reviewer**, *Wikiversity Fellow Program "Freies Wissen" (Free Knowledge)*.
- since 2017 **Member**, *Deutsche Gesellschaft für Psychologie (German Psychological Association)*.

## Teaching Experience

- Workshops over 20 Workshops on R, Structural Equation Modeling, Multilevel Analysis, Simulation studies
- Seminars 13 Seminars R, Structural Equation Modeling, Multilevel Analysis, Methods of Evaluation, Generalized Linear Models
- Lectures 5 Lectures on Statistics, Methods of Evaluation, Introduction to Psychology

## Positions in the academic self-administration

- since 2019 **Head of the examination board**, *Bachelor's program of psychology*, Goethe Universität.
- since 2019 **Member**, *Ethics Committee of the department for psychology and sports sciences*, Goethe Universität.

## Reviewer Activities

- since 2018 Psychometrika
- since 2018 European Journal of Personality
- 2018 International Journal of Behavioral Medicine
- 2018 Studies in Educational Evaluation
- since 2015 European Journal of Psychological Assessment
- 2015 Sociological Methods and Research
- 2014 Journal of Positive Psychology

## Journal Articles

- Kerber, A., **Schultze, M.**, Müller, S., Wright, A. G., Krueger, R. F., Knaevelsrud, C. & Zimmermann, J. (preprint). Development of a Short and Reliable Measure for DSM-5 and ICD-11 Maladaptive Personality Traits Using Ant Colony Optimization Algorithms.  
doi: 10.31234/osf.io/rsw54
- Mahlke, J., **Schultze, M.** & Eid, M. (2019). Analysing multisource feedback with multilevel structural equation models - pitfalls and recommendations from a simulation study. *British Journal of Mathematical and Statistical Psychology, Advance online publication*. doi: 10.1111/bmsp.12149
- Hohl, D. H., **Schultze, M.**, Keller, J., Heuse, S., Luszczynska, A. & Knoll, N. (2019). Inter-relations between partner provided support and self-efficacy: A dyadic longitudinal analysis. *Applied Psychology: Health and Well-Being, Advance online publication*. doi: 10.1111/aphw.12166
- Lawes, M., **Schultze, M.** & Eid, M. (2018). Making the most of your research budget: Efficiency of a three-method measurement design with planned missing data. *Assessment, Advance online publication*. doi: 10.1177/1073191118798050
- Schultze, M.** & Eid, M. (2018). Automated item selection in cross-cultural settings. *Methodology, 14* (4), 177–188. doi: 10.1027/1614-2241/a000155
- Hannover, B., Gubernath, J., **Schultze, M.** & Zander, L. (2018). Religiosity, religious fundamentalism, and ambivalent sexism toward girls and women among adolescents and young adults living in Germany. *Frontiers in Psychology, 9* (2399). doi: 10.3389/fpsyg.2018.02399
- Koch, T., **Schultze, M.**, Holtmann, J., Geiser, C. & Eid, M. (2017). A multimethod latent state-trait model for structurally different and interchangeable methods. *Psychometrika, 82* (1), 17–47. doi: 10.1007/s11336-016-9541-x
- Schulze, J., **Schultze, M.**, West, S. G. & Krumm, S. (2017). The knowledge, skills, abilities, and other characteristics required for face-to-face versus computer-mediated communication: Similar or distinct constructs? *Journal of Business and Psychology, 32* (3), 283–300. doi: 10.1007/s10869-016-9465-6
- Ulitzsch, E., Holtmann, J., **Schultze, M.** & Eid, M. (2017). Comparing multilevel and classical confirmatory factor analysis parameterizations of multirater data: A monte carlo simulation study. *Structural Equation Modeling: A Multidisciplinary Journal, 24* (1), 80–103. doi: 10.1080/10705511.2016.1251846

- Leuschner, V., Fiedler, N., **Schultze, M.**, Ahlig, N., Göbel, K., Sommer, F., ... Scheithauer, H. (2017). Prevention of targeted school violence by responding to students' psychosocial crises: The "Networks Against School Shootings"(NETWASS) program. *Child Development, 88* (1), 68-82. doi: 10.1111/cdev.12690
- Mahlke, J., **Schultze, M.**, Koch, T., Eid, M., Eckert, R. & Brodbeck, F. C. (2016). A Multilevel CFA–MTMM Approach for Multisource Feedback Instruments: Presentation and Application of a New Statistical Model. *Structural Equation Modeling: A Multidisciplinary Journal, 23* (1), 91 - 110. doi: 10.1080/10705511.2014.990153
- Schultze-Krumbholz, A., **Schultze, M.**, Zagorscak, P., Wölfer, R. & Scheithauer, H. (2016). Feeling cybervictims' pain—the effect of empathy training on cyberbullying. *Aggressive Behavior, 42* (2), 147 - 156. doi: 10.1002/ab.21613
- Koch, T., **Schultze, M.**, Jeon, M., Nussbeck, F., Praetorius, A. & Eid, M. (2016). A cross-classified CFA-MTMM model for structurally different and non-independent interchangeable methods. *Multivariate Behavioral Research, 51* (1), 67 - 85. doi: 10.1080/00273171.2015.1101367
- Janssen, A. B., **Schultze, M.** & Grötsch, A. (2015). Following the ants: Development of short scales for proactive personality and supervisor support by Ant Colony Optimization. *European Journal of Psychological Assessment, 1*-13. doi: 10.1027/1015-5759/a000299
- Koch, T., **Schultze, M.**, Burrurs, J. & Eid, M. (2015). A multilevel CFA-MTMM model for nested structurally different methods. *Journal of Educational and Behavioral Statistics, 40* (5), 477 - 510. doi: 10.3102/1076998615606109
- Schultze, M.**, Koch, T. & Eid, M. (2015). The effects of non-independent rater sets in multilevel-multitrait-multimethod models. *Structural Equation Modeling, 22* (3), 439 - 448. doi: 10.1080/10705511.2014.937675
- Michalak, J., **Schultze, M.**, Heidenreich, T. & Schramm, E. (2015). A randomized controlled trial on the efficacy of mindfulness-based cognitive therapy and a group version of cognitive behavioral analysis system of psychotherapy for chronically depressed patients. *Journal of Consulting and Clinical Psychology, 83* (5), 951 - 963. doi: 10.1037/ccp0000042
- Knoll, N., Wiedemann, A., **Schultze, M.**, Schrader, M. & Heckhausen, J. (2014). Prostate cancer patients gradually advance goals for rehabilitation after radical prostatectomy: Applying a lines-of-defense model to rehabilitation. *Psychology and Aging, 29* (4), 787-792. doi: 10.1037/a0038311
- Koch, T., **Schultze, M.**, Eid, M. & Geiser, C. (2014). A longitudinal multilevel CFA-MTMM model for interchangeable and structurally different methods. *Frontiers in Psychology, 5* (311). doi: 10.3389/fpsyg.2014.00311
- Schultze-Krumbholz, A., Jäkel, A., **Schultze, M.** & Scheithauer, H. (2012). Emotional and behavioural problems in the context of cyberbullying - a longitudinal study among german adolescents. *Emotional and Behavioural Difficulties, 17* (3-4), 329 - 345. doi: 10.1080/13632752.2012.704317
- Bull, H., **Schultze, M.** & Scheithauer, H. (2009). School-based prevention of bullying and relational aggression: The fairplayer.manual. *European Journal of Developmental Science, 3*, 312-317. doi: 10.1002/yd.20007

## Presentations

- Kerber, A., **Schultze, M.**, Knaevelsrud, C. & Zimmermann, J. (2019). *Entwicklung eines kurzen und reliablen Fragebogens zur Erfassung maladaptiver Persönlichkeitseigenschaften nach ICD-11 und DSM-5.* (11. Workshopkongress für Klinische Psychologie und Psychotherapie und 37. Symposium der Fachgruppe für Klinische Psychologie und Psychotherapie der DGPs, Erlangen (Germany), May 29 – June 1)
- Schultze, M.** & Eid, M. (2018). *Assessing Psychological Well-being in a Cross-Culturally Invariant Way: Shortening of the Ryff's Scale using Ant-Colony-Optimization.* (51. Kongress der Deutschen Gesellschaft für Psychologie, Frankfurt am Main (Germany), September 17-20)
- Lawes, M., **Schultze, M.** & Eid, M. (2018). *Planned Missing Data Designs: Investigating the Efficiency of a Three-Method Measurement Model.* (51. Kongress der Deutschen Gesellschaft für Psychologie, Frankfurt am Main (Germany), September 17-20)
- Hannover, B., Gubernath, J., **Schultze, M.** & Zander, L. (2018). *Zusammenhänge zwischen ambivalentem*

*Sexismus, Religiosität und religiösem Fundamentalismus bei Angehörigen verschiedener Religionsgemeinschaften.* (51. Kongress der Deutschen Gesellschaft für Psychologie, Frankfurt am Main (Germany), September 17-20)

- Schultze, M.** (2018). *Automatisierte Itemselektion mit dem R-Paket stuart.* (51. Kongress der Deutschen Gesellschaft für Psychologie, Frankfurt am Main (Germany), September 17-20)
- Schultze, M.,** Eid, M. & Scheithauer, H. (2016). *Automatisierte Entwicklung von zeitlich messinvarianten, multimethodalen Kurzskalen.* (50. Kongress der Deutschen Gesellschaft für Psychologie, Leipzig (Germany), September 19-22)
- Schultze, M.** & Eid, M. (2015). *Automated Scale Shortening in Multiple Group Studies.* (12. Tagung der Fachgruppe Methoden und Evaluation der Deutschen Gesellschaft für Psychologie, Jena (Germany), September 16-18)
- Schultze, M.** & Eid, M. (2015). *Shortening Scales Based on Automated CFA Fitting.* (Meeting of the Working Group Structural Equation Modeling, Berlin (Germany), February 26-27)
- Schultze, M.,** Koch, T. & Eid, M. (2013). *The effects of non-independent rater sets in multilevel-MTMM models.* (Paper presented at the 9th International Amsterdam Multilevel Conference, Utrecht (Netherlands), March 27-28)
- Koch, T., **Schultze, M.,** Geiser, C. & Eid, M. (2012). *A Simulation Study on the Performance of a Longitudinal Multilevel CTC(M-1) Model using MplusAutomation.* (Paper presented at the Psychoco 2012, Innsbruck (Austria), February 9-10)
- Koch, T., **Schultze, M.,** Geiser, C. & Eid, M. (2012). *Evaluating the Performance of a Longitudinal Multilevel CTC(M-1) Model Results of a Simulation Study.* (Paper presented at the Meeting of the Working Group Structural Equation Modeling, Amsterdam (Netherlands), March 22-23)
- Koch, T., **Schultze, M.,** Geiser, C. & Eid, M. (2011). *Multitrait-multimethod-multioccasion structural equation models for the combination of structurally different & interchangeable methods.* (Paper presented at the 8th International Amsterdam Multilevel Conference, Amsterdam (Netherlands), March 17-18)
- Schultze, M.,** Koch, T., Geiser, C. & Eid, M. (2011). *Modeling Longitudinal MTMM Data with Interchangeable and Structurally Different Methods: An Application to Developmental Psychology.* (Paper presented at the 8th International Amsterdam Multilevel Conference, Amsterdam (Netherlands), March 17-18)
- Koch, T., **Schultze, M.,** Geiser, C., West, S. & Eid, M. (2010). *Zur Performanz unterschiedlicher Multiple-Indicator CFA-MTMM-Modelle: eine Simulationsstudie.* (Paper presented at the 47th Kongress der Deutschen Gesellschaft für Psychologie, Bremen (Germany), September 26-30)
- Geiser, C., Koch, T., **Schultze, M.,** West, S. & Eid, M. (2010). *On the Stability of Parameter Estimates in Factor Models for Multi-Indicator Multitrait-Multimethod Data when Methods are Dropped.* (Paper presented at the 4th European Congress of Methodology / 27th Biennial Conference of the Society for Multivariate Analysis in the Behavioral Sciences, Potsdam (Germany), July 21-23)
- Bull, H., **Schultze, M.** & Scheithauer, H. (2009). *Unterrichtsbegleitende Prävention von Bullying und relationaler Aggression: das fairplayer.manual.* (Paper presented at the 14th Workshop Aggression, Berlin (Germany), November 6-8)

## Electronic Resources

- Schultze, M.,** Berger, C., Mehler, R. & Gäde, J. (2020). *pandar: Praktische Anwendungen der Datenanalyse in R.* Zugriff auf <https://pandar.netlify.com/>
- Schultze, M.** (2019). *stuart: Subtests Using Algorithmic Rummaging Techniques.* Zugriff auf <https://CRAN.R-project.org/package=stuart> (R package version 0.8.0)
- Schmalbach, B., Irmer, J. P. & **Schultze, M.** (2019). *ezCutoffs: Fit Measure Cutoffs in SEM.* Zugriff auf <https://CRAN.R-project.org/package=ezCutoffs> (R package version 1.0.1)
- Boettcher, S., Draschkow, D., Sassenhagen, J. & **Schultze, M.** (Hrsg.). (2018). *Scientific Methods for Open Behavioral, Social and Cognitive Sciences.* Zugriff auf <https://smobsc.readthedocs.io> doi: 10.17605/OSF.IO/X4BCZ