

DGFF-Kolleg

Auswahlbibliographie zum Thema *Statistik*



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Prof. Dr. Dominik Rumlich

dominik.rumlich@uni-paderborn.de



- Aguinis, H.; Gottfredson, R. K. & Joo, H. (2013): Best-practice recommendations for defining, identifying, and handling outliers. *Organizational Research Methods* 16 [DOI 10.1177/1094428112470848].
- Al-Hoorie, Ali H. & Vitta, Joseph P. (2018): The seven sins of L2 research: A review of 30 journals' statistical quality and their CiteScore, SJR, SNIP, JCR Impact Factors. *Language Teaching Research* 13 [DOI 10.1177/1362168818767191].
- Baron, Reuben M. & Kenny, David A. (1986): The moderator–mediator variable distinction in social psychological research: Conceptual, strategic, and statistical considerations. *Journal of Personality and Social Psychology* 51 [DOI 10.1037/0022-3514.51.6.1173].
- Behrens, John T. (1997): Principles and procedures of exploratory data analysis. *Psychological Methods* 2: 2, 131–160.
- Berger, James O. & Sellke, Thomas (1987): Testing a point null hypothesis: The irreconcilability of p values and evidence. *Journal of the American Statistical Association* 82 [DOI 10.1080/01621459.1987.10478397].
- Bertling, Jonas P. (2010): Zwei-Stichproben-Tests. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 391–409.
- Blanca, María J.; Arnau, Jaume; López-Montiel, Dolores; Bono, Roser & Bendayan, Rebecca (2013): Skewness and kurtosis in real data samples. *Methodology: European Journal of Research Methods for the Behavioral and Social Sciences* 9 [DOI 10.1027/1614-2241/a000057].
- Bortz, Jürgen & Schuster, Christof (2010): *Statistik für Human- und Sozialwissenschaftler* (7. Aufl.). Heidelberg: Springer.
- Brown, James D. (1991): Statistics as a foreign language: Part 1. What to look for in reading statistical language studies. *TESOL Quarterly* 25 [DOI 10.2307/3587077].
- Brown, James D. (1992): Statistics as a foreign language: Part 2. More things to consider in reading statistical language studies. *TESOL Quarterly* 26 [DOI 10.2307/3586867].
- Brown, Timothy A. (2006): *Confirmatory factor analysis for applied research*. New York, NY: Guilford Press.
- Bühner, Markus & Ziegler, Matthias (2009): *Statistik für Psychologen und Sozialwissenschaftler*. München: Pearson.
- Campitelli, Guillermo; Macbeth, Guillermo; Ospina, Raydonal & Marmolejo-Ramos, Fernando (2017): Three Strategies for the Critical Use of Statistical Methods in Psychological Research. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416668234].
- Caspari, Daniela; Klippel, Friederike; Legutke, Michael & Schramm, Karen (Hrsg.) (2022): *Forschungsmethoden in der Fremdsprachendidaktik* (2. Aufl.). Tübingen: Narr Francke Attempto.
- Chang, Mark (2017): What Constitutes Science and Scientific Evidence: Roles of Null Hypothesis Testing. *Educational and Psychological Measurement* 77: 3, 475–488.
- Cohen, Jakob (1988): *Statistical power analysis for the behavioral sciences*. Newbury Park, CA: Sage.

- Cohen, Jakob (1990): Things I have learned (so far). *American Psychologist* 45 [DOI 10.1037/0003-066X.45.12.1304].
- Cohen, Jakob (1994): The earth is round ($p < .05$). *American Psychologist* 49 [DOI 10.1037/0003-066X.49.12.997].
- Cortina, Jose M. (1993): What is coefficient alpha? An examination of theory and application. *Journal of Applied Psychology* 78, 98–104.
- Costello, Anna B. & Osborne, Jason W. (2005): Best practices in exploratory factor analysis: Four recommendations for getting the most from your analysis. *Practical Assessment, Research & Evaluation* 10: 7, 1–9.
- Cumming, Geoff (2014): The new statistics: Why and how. *Psychological science* 25 [DOI 10.1177/0956797613504966].
- Dancey, Christine P. & Reidy, John (2007): *Statistics without maths for psychology* (4. Aufl.). Harlow, UK: Pearson.
- Doff, Sabine (Hrsg.) (2012): *Fremdsprachenunterricht empirisch erforschen. Grundlagen - Methoden - Anwendung*. Tübingen: Narr.
- Döring, Nicola & Bortz, Jürgen (2016): *Forschungsmethoden und Evaluation für Human- und Sozialwissenschaftler* (5. Aufl.). Heidelberg: Springer.
- Dunst, Carl J.; Hamby, Deborah W. & Trivette, Carol M. (2004): Guidelines for calculating effect sizes for practice-based research syntheses. *Centerscope: Evidence-Based Approaches to Early Childhood Development* 3, 1–10.
- Eckes, Thomas (2022): Exploratorische und konfirmatorische Faktorenanalysen. In: Caspari, Daniela; Klippel, Friederike; Legutke, Michael & Schramm, Karen (Hrsg.): *Forschungsmethoden in der Fremdsprachendidaktik* (2. Aufl.). Tübingen: Narr Francke Attempto, 378–392.
- Eckstein, Peter P. (2008): *Angewandte Statistik mit SPSS* (6. Aufl.). Wiesbaden: Gabler.
- Ellis, Paul D. (2010): *The essential guide to effect sizes. Statistical power, meta-analysis, and the interpretation of research results*. Cambridge, UK: Cambridge University Press.
- Field, Andy (2018): *Discovering statistics using IBM SPSS statistics* (5th edition). Thousand Oaks, CA: Sage.
- Field, Andy P. & Hole, Graham J. (2003): *How to design and report experiments*. London, UK: Sage.
- Freund, Philipp A. (2010): Ein-Stichproben Tests. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 382–390.
- Graham, John W. (2009): Missing data analysis: Making it work in the real world. *Annual Review of Psychology* 60 [DOI 10.1146/annurev.psych.58.110405.085530].
- Graham, John W. (2012): *Missing data: Analysis and design*. New York, NY: Springer.
- Green, Rita (2013): *Statistical analyses for language testing*. Basingstoke, UK: Palgrave-Macmillan.
- Greenhalgh, T. (1997): How to read a paper: Statistics for the non-statistician. I: Different types of data need different statistical tests. *British Medical Journal* 315 [DOI 10.1136/bmj.315.7104.364].
- Greenhalgh, T. (1997): How to read a paper: Statistics for the non-statistician. II: "Significant" relations and their pitfalls. *British Medical Journal* 315 [DOI 10.1136/bmj.315.7105.422].
- Grotjahn, Rüdiger (2012): Theoretical misconceptions and misuse of statistics: A critique of Khodadady and Hashemi (2011) and some general remarks on Cronbach's Alpha. *Iranian Journal of Language Testing* 2: 1, 20–27.
- Grumm, Urška & Zydariß, Wolfgang (2022): Statistische Verfahren - Einleitung. In: Caspari, Daniela; Klippel, Friederike; Legutke, Michael & Schramm, Karen (Hrsg.): *Forschungsmethoden in der Fremdsprachendidaktik* (2. Aufl.). Tübingen: Narr Francke Attempto, 343–348.
- Gültekin-Karakoç, Nazan & Feldmeier, Alexis (2014): Analyse quantitativer Daten. In: Settinieri, Julia; Demirkaya, Sevilen; Feldmeier, Alexis; Gültekin-Karakoç, Nazan & Riemer, Claudia (Hrsg.): *Einführung in empirische Forschungsmethoden für Deutsch als Fremd- und Zweitsprache*. Paderborn: UTB, 183–211.

- Haig, Brian D. (2017): Tests of Statistical Significance Made Sound. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416667981].
- Haitovsky, Y. (1969): Multicollinearity in regression analysis: A comment. *Review of Economics and Statistics* 51 [DOI 10.2307/1926450].
- Hallgren, Kevin A. (2012): Computing inter-rater reliability for observational data: An overview and tutorial. *Tutorials in Quantitative Methods for Psychology* 8, 23–34.
- Hartig, Johannes & Rakoczy, Katrin (2010): Mehrebenenanalyse. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 538–547.
- Holling, Heinz & Schmitz, B. (Hrsg.) (2010): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe.
- Iacobucci, Dawn (2005): On p-values. *Journal of Consumer Research* 32: 1, 6–11.
- Ioannidis, John P A (2005): Why most published research findings are false. *PLoS medicine* 2 [DOI 10.1371/journal.pmed.0020124].
- Johnson, David R. & Young, Rebekah (2011): Toward best practices in analyzing datasets with missing data: Comparisons and recommendations. *Journal of Marriage and Family* 73 [DOI 10.1111/j.1741-3737.2011.00861.x].
- Jung, Sunho (2013): Exploratory factor analysis with small sample sizes: A comparison of three approaches. *Behavioural processes* 97 [DOI 10.1016/j.beproc.2012.11.016].
- Keller, Ferdinand (2003): Analyse von Längsschnittdaten. *Zeitschrift für Klinische Psychologie und Psychotherapie* 32 [DOI 10.1026//1616-3443.32.1.51].
- Kelley, Ken & Maxwell, Scott E. (2003): Sample size for multiple regression: Obtaining regression coefficients that are accurate, not simply significant. *Psychological Methods* 8 [DOI 10.1037/1082-989X.8.3.305].
- Kenny, David A.; Mannetti, Lucia; Pierro, Antonio; Livi, Stefano & Kashy, Deborah A. (2002): The statistical analysis of data from small groups. *Journal of Personality and Social Psychology* 83: 1, 126–137.
- Kenny, David A. & McCoach, D. B. (2003): Effect of the number of variables on measures of fit in structural equation modeling. *Structural Equation Modeling: A Multidisciplinary Journal* 10 [DOI 10.1207/S15328007SEM1003_1].
- Keselman, H. J.; Huberty, Carl J.; Lix, Lisa M.; Olejnik, Stephen; Cribbie, Robert A.; Donahue, Barbara; Kowalchuk, Rhonda K.; Lowman, Laureen L.; Petoskey, Martha D.; Keselman, Joanne C. & Levin Joel R (1998): Statistical practices of educational researchers: An analysis of their ANOVA, MANOVA, and ANCOVA analyses. *Review of Educational Research* 68: 3, 350–386.
- Klauer, Karl C. & Leonhart, Rainer (2010): Veränderungsmessung. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 624–631.
- Kline, Rex B. (2004): *Beyond significance testing: Reforming data analysis methods in behavioral research*. Washington, DC: American Psychological Association.
- Krantz, David H. (1999): The null hypothesis testing controversy in psychology. *Journal of the American Statistical Association* 94 [DOI 10.1080/01621459.1999.10473888].
- Kubinger, Klaus D.; Rasch, Dieter & Moder, Karl (2009): Zur Legende der Voraussetzungen des t-Tests für unabhängige Stichproben. *Psychologische Rundschau* 60 [DOI 10.1026/0033-3042.60.1.26].
- Kuhn, Jörg-Tobias (2010): Hypothesentestung. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 350–369.
- Langsrud, Ø. (2003): ANOVA for unbalanced data: Type II instead of type III sums of squares. *Statistics and Computing* 13, 163–167.
- Larson-Hall, Jenifer (2010): *A guide to doing statistics in second language research using SPSS*. New York, NY: Routledge.
- Leppink, Jimmie; O'Sullivan, Patricia & Winston, Kal (2016): Effect size - large, medium, and small. *Perspectives on medical education* 5 [DOI 10.1007/s40037-016-0308-y].

- Lienert, G. A. & Raatz, U. (1998): *Testaufbau und Testanalyse* (6. Aufl.). Weinheim: BeltzPVU.
- Lüdtke, Oliver; Robitzsch, Alexander; Trautwein, Ulrich & Köller, Olaf (2007): Umgang mit fehlenden Werten in der psychologischen Forschung. *Psychologische Rundschau* 58 [DOI 10.1026/0033-3042.58.2.103].
- Marewski, Julian N. & Olsson, Henrik (2009): Beyond the null ritual. *Zeitschrift für Psychologie / Journal of Psychology* 217 [DOI 10.1027/0044-3409.217.1.49].
- Marmolejo-Ramos, Fernando & Cousineau, Denis (2017): Perspectives on the use of null hypothesis statistical testing. Part I: The mighty frames of scientific and statistical inference. *Educational and Psychological Measurement* 77: 3, 471–474.
- Marmolejo-Ramos, Fernando & Cousineau, Denis (2017): Perspectives on the use of null Hypothesis Statistical Testing. Part III: The Various Nuts and Bolts of Statistical and Hypothesis Testing. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416667988].
- Marmolejo-Ramos, Fernando & Cousineau, Denis (2017): Perspectives on the Use of Null Hypothesis Statistical Testing. Part II: Is Null Hypothesis Statistical Testing an Irregular Bulk of Masonry? *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416667987].
- Marsh, Herbert W.; Hau, Kit-Tai; Balla, John R. & Grayson, David (1998): Is more ever too much? The number of indicators per factor in confirmatory factor analysis. *Multivariate Behavioral Research* 33 [DOI 10.1207/s15327906mbr3302_1].
- Maxwell, Scott E. (2000): Sample size and multiple regression analysis. *Psychological Methods* 5, 434–458.
- McGrath, Robert E. & Meyer, Gregory J. (2006): When effect sizes disagree: The case of r and d . *Psychological Methods* 11 [DOI 10.1037/1082-989X.11.4.386].
- Miles, J. N.V. & Banyard, P (2007): *Understanding and using statistics in psychology: A practical introduction*. London, UK: Sage.
- Moosbrugger, Helfried & Reiß, Siegbert (2010): Einfaktorielle Varianzanalyse. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttinge: Hogrefe, 420–438.
- Moosbrugger, Helfried & Reiß, Siegbert (2010): Mehrfaktorielle Varianzanalyse mit Messwiederholung. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 439–457.
- Morris, S. B. (2008): Estimating effect sizes from pretest-posttest-control group designs. *Organizational Research Methods* 11 [DOI 10.1177/1094428106291059].
- Mundfrom, Daniel J.; Shaw, Dale G. & Ke, Tian L. (2005): Minimum sample size recommendations for conducting factor analyses. *International Journal of Testing* 5 [DOI 10.1207/s15327574ijt0502_4].
- Murphy, Kevin R.; Myers, Brett & Wolach, Allen (2009): *Statistical power analysis: A simple and general model for traditional and modern hypothesis tests* (3. Aufl.). New York, NY: Routledge.
- Nuzzo, Regina (2014): Statistical errors. P-values, the 'gold standard' of statistical validity, are not as reliable as many scientists assume. *Nature* 506 [DOI 10.1038/506150a].
- Patriota, Alexandre G. (2017): On Some Assumptions of the Null Hypothesis Statistical Testing. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416667979].
- Peugh, J. L. & Enders, C. K. (2004): Missing Data in Educational Research: A Review of Reporting Practices and Suggestions for Improvement. *Review of Educational Research* 74 [DOI 10.3102/00346543074004525].
- Poncet, Antoine; Courvoisier, Delphine S.; Combescure, Christophe & Perneger, Thomas V. (2016): Normality and Sample Size Do Not Matter for the Selection of an Appropriate Statistical Test for Two-Group Comparisons. *Methodology* 12 [DOI 10.1027/1614-2241/a000110].
- Raab-Steiner, Elisabeth & Benesch, Michael (2010): *Der Fragebogen: Von der Forschungsidee zur SPSS-Auswertung* (2. Aufl.). Wien, Austria: UTB.
- Rasch, Dieter & Guiard, Volker (2004): The robustness of parametric statistical methods. *Psychology Science* 46: 2, 175–208.

- Rauch, Wolfgang A. & Moosbrugger, Helfried (2010): Einfache und multiple Regression. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 410–419.
- Reinders, Heinz (2006): Kausalanalysen in der Längsschnittforschung. Das crossed-lagged-panel design. *Diskurs Kindheits- und Jugendforschung* 1, 569–587.
- Rossa, Henning & Helsper, Daniel M. (2022): Test- und Fragebogenstatistik. In: Caspari, Daniela; Klippel, Friederike; Legutke, Michael & Schramm, Karen (Hrsg.): *Forschungsmethoden in der Fremdsprachendidaktik* (2. Aufl.). Tübingen: Narr Francke Attempto, 366–377.
- Rost, Detlef H. (2010): Messtheorie von Rasch. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 649–659.
- Rubin, Donald B. (2005): Causal Inference Using Potential Outcomes. *Journal of the American Statistical Association* 100 [DOI 10.1198/016214504000001880].
- Rudinger, Georg (2010): Längsschnittstudien. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 612–623.
- Schmidt, Frank L. (1996): Statistical significance testing and cumulative knowledge in psychology: Implications for training of researchers. *Psychological Methods* 1: 1, 115–129.
- Settinieri, Julia (2012): Statistische Verfahren. Grundlagenbeitrag. In: Doff, Sabine (Hrsg.): *Fremdsprachenunterricht empirisch erforschen. Grundlagen - Methoden - Anwendung*. Tübingen: Narr, 249–270.
- Settinieri, Julia (2022): Deskriptiv- und Inferenzstatistik. In: Caspari, Daniela; Klippel, Friederike; Legutke, Michael & Schramm, Karen (Hrsg.): *Forschungsmethoden in der Fremdsprachendidaktik* (2. Aufl.). Tübingen: Narr Francke Attempto, 349–365.
- Shear, B. R. & Zumbo, B. D. (2013): False positives in multiple regression: Unanticipated consequences of measurement error in the predictor variables. *Educational and Psychological Measurement* 73 [DOI 10.1177/0013164413487738].
- Shrout, Patrick E. & Fleiss, Joseph L. (1979): Intraclass correlations: Uses in assessing rater reliability. *Psychological Bulletin* 86: 2, 420–428.
- Sijtsma, Klaas (2009): On the use, the misuse, and the very limited usefulness of Cronbach's Alpha. *Psychometrika* 74 [DOI 10.1007/S11336-008-9101-0].
- Simonsohn, Uri; Nelson, Leif D. & Simmons, Joseph P. (2014): P-curve: A key to the file-drawer. *Journal of Experimental Psychology: General* 143 [DOI 10.1037/a0033242].
- Tabachnick, B. G. & Fidell, L. S. (2007): *Using multivariate statistics*. Boston, MA: Allyn & Bacon.
- Trafimow, David (2017): Using the Coefficient of Confidence to Make the Philosophical Switch From A Posteriori to A Priori Inferential Statistics. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416667977].
- Trafimow, David & MacDonald, Justin A. (2017): Performing Inferential Statistics Prior to Data Collection. *Educational and Psychological Measurement* 77 [DOI 10.1177/0013164416659745].
- Tversky, Amos & Kahneman, Daniel (1971): Belief in the law of small numbers. *Psychological Bulletin* 76 [DOI 10.1037/h0031322].
- Volker, Martin A. (2006): Reporting effect size estimates in school psychology research. *Psychology in the Schools* 43 [DOI 10.1002/pits.20176].
- Walter, Otto B. (2010): Konfidenzintervalle. In: Holling, Heinz & Schmitz, B. (Hrsg.): *Handbuch Statistik, Methoden und Evaluation*. Göttingen: Hogrefe, 335–349.
- Woodrow, Lindy (2014): *Writing about quantitative research in applied linguistics*. New York, NY: Palgrave Macmillan.
- Wrench, Jason S. (Hrsg.) (2019): *Quantitative research methods for communication: A hands-on approach*. New York: Oxford University Press.
- Wright, D. B. & London, Kamala (2009): *First (and second) steps in statistics* (2. Aufl.). London, UK: Sage.