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STATISTICAL DEVELOPMENTS AND APPLICATIONS

The Statistical Developments and Applications Reference List

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Meijer, Streiner, Furr, and Sass (2014) recently provided a brief update on the Statistical Developments and Applications (SDA) section of the journal. This article outlined several ways in which we, the editors of the SDA section, hope to advance the section's goals of keeping readers informed about emerging statistical and psychometric procedures. At that time, we noted that we were preparing a reference list of guidelines for implementing and applying techniques frequently used in personality assessment. More specifically, this

list presents references that provide new and useful insights about both popular and newly developed statistical procedures and that illustrate important procedures that could be applied to the study and practice of personality assessment.

That reference list is now available (see Table 1 or <http://personality.org/publications/resources-for-research/>) and is intended to improve the quality of research published in *Journal of Personality Assessment (JPA)* and of research more broadly. This list also complements the important statistical

Table 1.—A reference list for contemporary methods of research in personality assessment.

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MacCallum, R. C., Widaman, K. F., Zhang, S., & Hong, S. (1999). Sample size in factor analysis. *Psychological Methods, 4*, 84–99.
Muthén, L. K., & Muthén, B. O. (2002). How to use a Monte Carlo study to decide on sample size and determine power. *Structural Equation Modeling, 9*, 599–620.

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Basic effect size guide with SPSS and SAS syntax: <http://www.tandf.co.uk/journals/authors/hjpa/resources/basiceffectsizeguide.rtf> (Meyer, G. J., McGrath, R. E., & Rosenthal, R., 2003).
Definitional formulae for effect sizes and their links to inferential statistics: <http://psych.wfu.edu/furr/EffectSizeFormulas.pdf> (Furr, R. M., 2008)

(Continued on next page)

Table 1.—A reference list for contemporary methods of research in personality assessment. (Continued)

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Reliability generalization

- Charter, R. A. (2003). Combining reliability coefficients: Possible application to meta-analysis and reliability generalization. *Psychological Reports*, 93, 643–647.
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- Stark, S., Chernyshenko, O. S., & Drasgow, F. (2004). Examining the effects of differential item (functioning and differential) test functioning on selection decisions: When are statistically significant effects practically important? *Journal of Applied Psychology*, 89, 497–508.
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- Mediation and moderation**
- Baron, R. M., & Kenny, D. A. (1986). The moderator–mediator variable distinction in social psychological research: Conceptual, strategic and statistical considerations. *Journal of Personality and Social Psychology*, 51, 1173–1182.
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- Common method variance**
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and psychometric papers that have been published in the SDA section since 2003 (see Table 1 in Meijer et al., 2014).

We see this evolving list, along with the previous SDA section papers, as being useful for several purposes. First, authors who are preparing manuscripts for *JPA* will hopefully find the articles useful for informing and shaping their analytic strategies, at the same time improving the quality of their research. Second, *JPA* reviewers might find the list useful when gauging the strengths and weaknesses of a paper's analytic strategies and conclusions. Third, *JPA* readers might find the list useful when seeking greater depth in contemporary methods of studying personality assessment. Fourth, instructors seeking resources for training students in personality assessment could use the list to help shape a set of course readings. Finally, we hope that consumers and producers of personality assessment research more generally will benefit from having a wide-ranging set of key technical readings in psychometric and statistics.

The list is not meant to be comprehensive, but rather to highlight some useful educational sources in psychometrics and statistics. In addition, we imagine adding new topics to the list, along with updated citations within the various topics. We hope that *JPA* readers will participate in this evolution, thus we invite suggestions for revisions. Please feel free to contact us at FurrRM@wfu.edu (R. Michael Furr), daniel.sass@utsa.edu (Daniel A. Sass), streiner@mc-master.ca (David L. Streiner), or r.r.meijer@rug.nl (Rob R. Meijer).

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