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Moderation and mediation in spss

Over 23,000 copies sold! Introduction to mediation, moderation and conditional process analysis describes the basis of mediation and moderation analysis, as well as their analytical integration in the form of conditional process analysis, with a focus on version 3 of the SPSS and SAS (#processmacro) process as a tool for implementing the methods discussed. Available as both e-book and printed, it is published by The Guilford Press in their Social Sciences series methodology. Visit Guilford Press to view the table of contents, a sample chapter, and comments. Click here to download the data files used in this book. If you're looking for files used in the first edition published in 2013, click here. The first edition of this book is now print, and much of the process-related content in the first edition is outdated and will not work in the latest version of PROCESS. Here is a document for the first edition, and here is one for the second edition. Go to processmacro.org to download PROCESS for SPSS and SAS and related files. New to The SPSS syntax? Do you want to teach or emphasize the use of the SPSS syntax in the classroom? Download My Free Using SPSS: A Little Syntax Guide Using SPSS: A Little Syntax Guide (.zip file) If you like Introduction to Mediation, Moderation, and Conditional Process, try my regression analysis book: Regression Analysis and Hayes Linear Patterns, A. F., & Montoya, A. K. (in review). Mediation analysis in pretest-posttest design with two conditions: Treatment as moderator of time effects. Guest manuscript under review. [Request a PDF] Coutts, J. J., Hayes, A. F., & Jiang, T. A. (2019). Simple analysis of statistical mediation with distinguishable dyadic data. *Communication Journal*. [PDF] Hayes, A. F., & Rockwood, N. J. (2020). Conditional Process Analysis: Concepts, calculations and progress in shaping unforeseen situations of mechanisms. *American Behavioral Scientist*, 64, 19-54. [PDF] Hayes, A. 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To the standard error of the difference between independent regression coefficients in moderation analysis. *Multiple linear regression views*, 40 (2), 16-27. [PDF] or [email me for a copy of the article] Hayes, A. F., & Scharnow, M. (2013). Relative reliability of inferential tests of indirect effect in statistical mediation analysis: Does the method really matter? *Psychological science*, 24, 1918-1927. [email me for a copy] DOI:10.1177/0956797613480187 [eHayes, A. F., & Preacher, K. J. (2013). Modeling conditional processes: Using structural equation modeling to examine contingent causal processes. In G. R. Hancock and R. O. Mueller (Eds.) *Modeling Structural Equations: A Second Course (Second Ed)*. Charlotte, NC: Information Age Publishing [on the publisher's page][e-mail me for a copy] Hayes, A. F., & Preacher, K. J. (2010). Estimating and testing indirect effects in simple mediation models when constituent pathways are non-linear. *Multivariate Behavioral Research*, 45, 627-660. DOI: 10.1080/00273171.2010.498290 [Hayes, A. F. (2009). Beyond Baron and Kenny: Analysis of statistical mediation in the new millennium. *Communication monographs*, 76, 408-420. [PDF] This page contains answers to various frequently asked questions about PROCESS. WARNING: MacOS Catalina users: This version of MacOS blocks access to files that make it appear that files are missing and affects the operation of SPSS and the ability to install PROCESS. Here is a video that might be helpful in working around this issue. If you recently installed SPSS27 and receive a string of errors when you try to run PROCESS, see here. Question: Is there documentation or user manual for PROCESS? Answer: The latest version of PROCESS (version 3) is documented in Appendix A and B of the second edition of Introduction to Mediation, Moderation and Analysis of Conditional Processes. Many questions that no doubt will have about using the PROCEDURE and what it is able to do and is not able to do can be found in the documentation as well as throughout the book. Documentation is not available electronically. Question: can I get PROCESS at work? Answer: The documentation answers this question, and many examples can be found in the book. PROCESS for SPSS and SAS can run as a syntax-based macro, and SPSS users have the option to install a drop-down menu by installing the custom dialog file. There is a document in the zip archive that contains the PROCESS files that describes how to install custom dialog files. For instructions on activating syntax-based, see the documentation. Question: download PROCESS? Answer: Choose the download tab from processmacro.org and click the red download button on the page that opens. PROCESS and its associated files are stored as a zip archive. If your browser doesn't automatically download the file as a zip archive, change your browser settings, try a different browser, or check with a local technical support person for support. PROCESS is distributed only through processmacro.org. Files will not be sent by email. Other than the advice I offer here, I can't help troubleshooting the problems I might be having with downloading the process. Question: Other than by reading your documentation or book, are there any additional places I can go to learn about using PROCESS? Answer: Process workshops are scheduled in different places around the world at different times and are usually offered by Statistical Horizons in the United States and the Global School of Empirical Research Methods in Europe. I travel frequently, on an invitation basis, to offer two- and three-day workshops at different universities. During the coronavirus pandemic, these workshops are only available in online format. See Workshops tabs above. If you are interested in a private online workshop for your research organization or group, send an email workshop@processmacro.org. Here are some videos that give me the two most popular courses: Course 1 Course 2 Question: Do you offer workshops online? Answer: Yes. Online workshops that we have currently scheduled are described on the Workshops tab above. I can also run an online workshop for a group at your institution. Send an email to workshop@processmacro.org and we can discuss your options, calendar and fees. Here are some videos that give me the two most popular courses: Course 1 Course 2 Question: What is the difference between version 2 and 3? Answer: There are many differences. For example, you should no longer list the variables in the next vars= model, and the co-variations are specified using the cov= option instead of listing them in the now outdated vars= specification. In version 3, moderators are always W or Z (V, Q, and M are never moderators in v3). PROCESS v3 also allows independent multicategorical variables and moderators in all models, and in version 3 you can schedule your own model rather than rely on models that come preprogrammed in the process. Some of the preprogrammed models in version 2 have been removed in version 3, but the new models (for example, moderate serial mediation) have been added to version 3. The template models for version 3 are different. Question: Where are the template models for PROCESS v3? Answer: Templates for the numbered models in PROCESS v3 are available in Appendix A of the 2nd edition of Introduction to Mediation, Moderation and Conditional Process Analysis. They are not in electronic form, with the exception of the electronic edition of the book. The templates for version 3 are not the same as for the version version Version 3 allows you to create your own model by bypassing the system of model numbers. For instructions on how to do this, see Appendix B to the second edition of the book. Question: I have the second edition of Introduction to Mediation, Moderation, and Conditional Process Analysis, but not all the templates for the v3 process are there in Appendix A. Where can I find them? Answer: Each preprogrammed model that PROCESS will estimate has a template in Appendix A to the second edition. None of them are missing. Many model numbers

version 3. The PROCEDURE did not corrected and accelerated bias (BCa) bootstrap confidence intervals. If you report confidence intervals from PROCES using the BCa notation or using the corrected and accelerated bias term, you will be misleading your audience about what you've done. The trusted ranges of bootstrap corrected by Bias will be available again in a future version of PROCESS. Question: Do I first have to establish that X's effect on Y is mediated by an M variable before testing whether X's indirect effect on Y to M is moderate? Answer: I heard this said, and I couldn't disagree more. See page 426 of Introduction to Mediation, Moderation, and Conditional Process Analysis (2nd edition), if they say that proof of mediation of x-effect on Y through a mediator is not necessary to test (or even ask the question) whether an indirect effect of X on Y through the mediator is moderate. If you have asked for evidence of mediation as a prerequisite to examine whether a mechanism is moderate, you will end up losing a lot of interesting and potentially important findings. Indeed, some of the most interesting and important findings are of this variety, where a simple analysis reveals no effect, but a more in-depth analysis that examines the contingencies of a mechanism shows that the effect exists, but differently (in size or power), depending on a moderator are not included in the simpler analysis. Question: I think there is a bug in the programming. can I report this? Answer: Most of the time, suspected bugs are not bugs at all, but it may seem so because of a misunderstanding of what PROCES does, to use it, or a lack of familiarity with documentation. But, as in all programs, real bugs can exist in the process, and when they are found they are finally fixed. Known bugs and fixes are listed on the version history page, where you will also find a form you can use to report a suspected error or recommend a change or a new feature. To make sure you have the most error-free, always use the latest version of PROCESS. Question: Where did you learn to schedule macros? Answer: I'm self-taught. I learned to program first in the base on a Commodore VIC-20 my father bought me in high school in 1980. My first publication was a computer program published in COMPUTE! magazine when I was 14, and for a short time in high school I had a small software company I operated with a friend of mine who produced games and educational programs for Commodore machines. Once you have learned the essence of computer programming, skill generalizes to almost Language. The macro functions in SAS and SPSS are quite versatile, and the MATRIX (SPSS) and PROC IML (SAS) language are very powerful and can be used to program these statistical packages to do much more than what they offer the user on the shelf. Shelf.

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