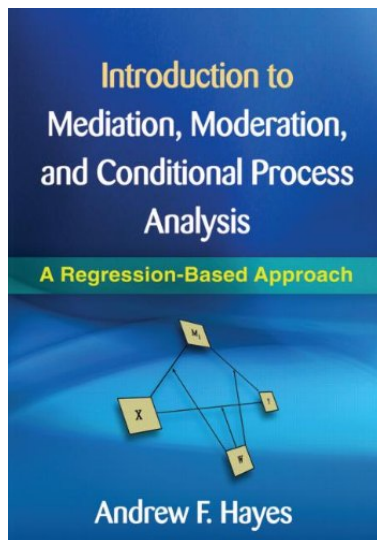


PROCESS: A Versatile Computational Tool for Observed Variable Mediation, Moderation, and Conditional Process Modeling

Andrew F. Hayes
The Ohio State University
hayes.338@osu.edu
<http://www.afhayes.com/>

This document is no longer distributed. PROCESS is described and documented in



Hayes, A.F. (2013). *Introduction to mediation, moderation, and conditional process analysis: A regression-based approach*. New York: Guilford Press. The documentation for PROCESS is available in Appendix A of this book.

<http://www.guilford.com/p/hayes3>

PROCESS can be downloaded from <http://www.processmacro.org>



Take a workshop from Andrew F. Hayes on mediation, moderation, and conditional process analysis using the PROCESS macro for SPSS and SAS. Workshops scheduled in 2017 that are open to the public include



Mediation, Moderation, and Conditional Process Analysis I and II. These courses based on the use of PROCESS are offered by the Global School in Empirical Research Methods in **St. Gallen, Switzerland**. Course I is 12-16 June 2017 and course II is 19-23 June 2017. Enrollment priority is given to

Ph.D. students and post docs, though others may apply. Book soon, as these courses will sell out. Details and enrollment information are available at gserm.ch/stgallen. Students in the second course will receive a beta version of PROCESS v3, months prior to its public release. Combined, these two courses cover about the same material as the 5-day course in Chicago.



Mediation, Moderation, and Conditional Process Analysis.

This 5-day introductory to intermediate-level course with a focus on PROCESS is being offered through Statistical Horizons at the **Gleacher Center in Chicago**, 10-14 July 2017. The details and enrollment information are available at www.statisticalhorizons.com. Students in this class will receive a beta version of PROCESS v3, months prior to its public release.

If you'd like to schedule a private workshop at your institution, send an email to workshop@processmacro.org

What's Coming in PROCESS v3

***** DIRECT AND INDIRECT EFFECTS *****

Effect	SE	t	P	LLCI	ULCI
Direct effect of X on Y					
Effect					
→ -.2457	.1539	-1.5968	.1132	-.5507	.0593

Conditional indirect effect(s) of X on Y at values of the moderator(s)

Mediator	Effect	Boot SE	BootLLCI	BootULCI
lonely	-.0435	.0537	-.2155	.1283
ptsd	-.9456	.0486	-.9942	-.8970
ptsd	-.8028	.0537	-.9063	-.7003
ptsd	-.2314	.0486	-.3200	-.1428
ptsd	.6258	.0537	.5171	.7345

Attending the Association for Psychological Science in Boston? Come hear Andrew Hayes talk about what you can expect in PROCESS v3.0. Some of the new features will include

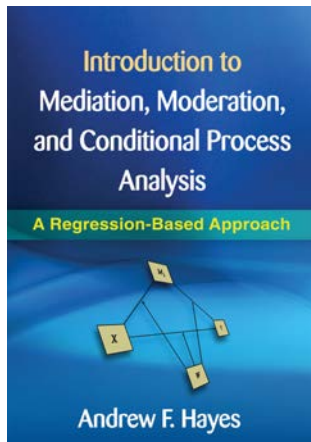
- models for moderated serial mediation
- models that combine serial and parallel multiple mediation
- multicategorical causes (X) and/or moderators for all models PROCESS can estimate
- numbered models can be edited/modified
- design and customize/program your own models
- probing and visualizing interactions for all models, regardless of where those interactions exist in the model
- bootstrap confidence intervals for all model coefficients, not just indirect effects
- different covariates can be spread across different parts of the full model

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www.guilford.com/p/hayes3

Introduction to Mediation, Moderation, and Conditional Process Analysis

A Regression-Based Approach

Andrew F. Hayes

“Mediation and moderation are two of the most widely used statistical tools in the social sciences. Students and experienced researchers have been waiting for a clear, engaging, and comprehensive book on these topics for years, but the wait has been worth it—this book is an absolute winner. With his usual clarity, Hayes has written what will become the default resource on mediation and moderation for many years to come.”

—**Andy Field, PhD**, School of Psychology, University of Sussex, United Kingdom

“Hayes provides an accessible, thorough introduction to the analysis of models containing mediators, moderators, or both. The text is easy to follow and written at a level appropriate for an introductory graduate course on mediation and moderation analysis. The book is also an extremely useful resource for applied researchers interested in analyzing conditional process models. One strength is the inclusion of numerous examples using real data, with step-by-step instructions for analysis of the data and interpretation of the results. This book’s largest contribution to the field is its replacement of the confusing terminology of mediated moderation and moderated mediation with the clearer and broader term *conditional process model*.”

—**Matthew Fritz, PhD**, Department of Educational Psychology, University of Nebraska-Lincoln

“A welcome contribution. This book’s accessible language and diverse set of examples will appeal to a wide variety of substantive researchers looking to explore how or why, and under what conditions, relationships among variables exist. Hayes has a unique ability to effectively communicate technical material to nontechnical audiences. He facilitates application of several cutting-edge statistical models by providing practical, well-oiled machinery for conducting the analyses in practice. I can use this book to enhance my graduate-level mediation class by extending the course to include more coverage on differentiating mediation versus moderation and on conditional process models that simultaneously evaluate both effects together.”

—**Amanda Jane Fairchild, PhD**, Department of Psychology, University of South Carolina

“This decidedly readable, informative book is perfectly suited for a range of audiences, from the novice graduate student not quite ready for SEM to the advanced statistics instructor. Even the seasoned quantitative methodologist will benefit from Hayes’s years of accumulated wisdom as he expertly navigates this burgeoning—and at times inconsistent—literature. This book is particularly well suited for graduate-level courses. Hayes brings conditional process analysis to life with such passion that even the most ‘stat-o-phobic’ will become convinced that they too can master SPSS (or SAS) process. The thoughtful use of real-life examples, accompanied by SPSS and SAS syntax and output, makes the book highly accessible.”

—**Shelley Brown, PhD**, Department of Psychology, Carleton University, Canada

Explaining the fundamentals of mediation and moderation analysis, this engaging book also shows how to integrate the two using an innovative strategy known as conditional process analysis. Procedures are described for testing hypotheses about the mechanisms by which causal effects operate, the conditions under which they occur, and the moderation of mechanisms. Relying on the principles of ordinary least squares regression, Andrew Hayes carefully explains the estimation and interpretation of direct and indirect effects, probing and visualization of interactions, and testing of questions about moderated mediation. Examples using data from published studies illustrate how to conduct and report the analyses described in the book. Of special value, the book introduces and documents PROCESS, a macro for SPSS and SAS that does all the computations described in the book. The author’s website (www.afhayes.com) offers free downloads of PROCESS plus data files for the book’s examples.

Find full information about this title online: www.guilford.com/p/hayes3

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