An Introduction to Intermediate and Advanced Statistical Analyses for Sport and Exercise Scientists

Nikos Ntoumanis (Editor), Nicholas D. Myers (Editor)

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DESCRIPTION

“Ntoumanis and Myers have done sport and exercise science researchers and students a tremendous service in producing An Introduction to Intermediate and Advanced Statistical Analyses for Sport and Exercise Scientists. This book has an outstanding compilation of comprehensible chapters dealing with the important concepts and technical minutia of the statistical analyses that sport and exercise science scholars use (or should be using!) in their efforts to conduct meaningful research in the field. It is a resource that all sport and exercise scientists and their students should have on their book shelves.”

—Robert Eklund, School of Sport, University of Stirling, UK

“Motivating, to have a statistics text devoted to enabling researchers studying sport and exercise science to apply the most sophisticated analytical techniques to their data. Authors hit the mark between using technical language as necessary and user-friendly terms or translations to keep users encouraged. Text covers traditional and well-used tools but also less common and more complex tools, but always with familiar examples to make their explanations come alive. As a dynamic systems theorist and developmentalist, I would love to see more researchers in my area create study designs that would enable the use of tools outlined here, such as multilevel structural equation modeling (MSEM) or mediation & moderation analyses, to uncover cascades of relations among subsystems contributing to motor performance, over time. This text can facilitate that outcome.”

—Beverly D. Ulrich, School of Kinesiology, University of Michigan, USA
“The domain of quantitative methods is constantly evolving and expanding. This means that there is tremendous pressure on researchers to stay current, both in terms of best practices and improvements in more traditional methods as well as increasingly complex new methods. With this volume Ntoumanis and Myers present a nice cross-section of both, helping sport and exercise science researchers to address old questions in better ways, and, even more excitingly, to address new questions entirely. I have no doubt that this volume will quickly become a lovingly dog-eared companion for students and researchers, helping them to continue to move the field forward.”

— Gregory R. Hancock, University of Maryland and Center for Integrated Latent Variable Research (CILVR), USA

ABOUT THE AUTHOR

Nikos Ntoumanis, School of Sport, Exercise and Rehabilitation Sciences, University of Birmingham, Birmingham, UK. Nikos has been teaching statistics to sport and exercise sciences university students for 14 years in two UK universities and delivered statistics workshops in the UK and overseas.

Nicholas Daniel Myers, Department of Educational and Psychological Studies, University of Miami, Florida, USA. His expertise is in advanced statistical methods with an emphasis on applications in sport and exercise science. Nicholas serves as Director of the Research, Measurement, and Evaluation (RME) doctoral program at the University of Miami. The RME doctoral program has been rated a top-20 program nationally by Academic Analytics since 2006 and has served as a statistical consultant for the Research Methodology Services component of the Dunsbaugh-Dalton Community and Educational Well-Being (CEW) Research Centre at the University of Miami.

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