

Alternative to Difference Scores: Polynomial Regression and Response Surface Methodology



Professor Jeffrey Edwards will conduct a two-day workshop on alternatives to difference scores, focusing on polynomial regression and response surface methodology.

Dates: 11-12 March 2019

Times: 10.00-16.30 (day one) and 10.00-15.00 (day two)

Venue: Alliance Manchester Business School (room tbc)

For decades, difference scores have been used in studies of congruence in organizational research. Despite their widespread use, difference scores have numerous methodological problems. These problems can be overcome by using polynomial regression and response surface methodology, which can examine a wide range of congruence hypotheses. This workshop will review problems with difference scores, introduce polynomial regression and response surface methodology, and illustrate the application of these methods using empirical examples. Participants will be provided with data to analyze during the class with the goal of creating a hands-on experience that will clarify and reinforce the methods discussed. The workshop is aimed at doctoral students and early career researchers with a working knowledge of multiple regression analysis and its application in empirical research.

About Jeffrey Edwards

Jeff Edwards is the Belk Distinguished Professor of Organizational Behavior at the Kenan-Flagler Business School at the University of North Carolina at Chapel Hill. He received his Ph.D. in organizational psychology and theory from Carnegie Mellon University. He is past editor of *Organizational Behavior and Human Decision Processes* and has served as associate editor for *Organizational Research Methods*, the *Journal of Organizational Behavior*, and *Management Science*. He is past division chair of the Research Methods Division of the Academy of Management and is the founder and coordinator of RMNET, the electronic question-and-answer forum for members of the Research Methods Division. He is a Fellow of the Academy of Management, the American Psychological Association, the Society of Industrial and Organizational Psychology, and the Center for the Advancement of Research Methods and Analysis. He has also received the Distinguished Career Award from the Research Methods Division of the Academy of Management.

There is some pre-reading required for this event, and participants may be asked to bring a laptop with either SPSS or Stata installed (any recent version should suffice) and further instructions and links to the software will be sent in due course.

Programme

11 March

10.00-10.30	Registration and coffee
10.30-12.30	Session
12.30-13.30	Lunch
13.30-15.00	Session
15.00-15.30	Break
15.30-16.30	Session

12 March

10.00-10.30	Coffee
10.30-12.30	Session
12.30-13.30	Lunch
13.30-15.00	Session

Directions to Alliance Manchester Business School

<http://documents.manchester.ac.uk/display.aspx?DocID=6507>

To register your interest, click on the orange button on the event page:

<https://narti.org.uk/events/article/alternative-to-difference-scores-polynomial-regression-and-response-with-professor-jeffrey-edwards/>

Please include details of why you wish to be considered for a place in the 'Additional Details' section of the online form. We have a limited number of places available on NARTI workshops and use this information to select participants. You will receive notification if a place is allocated to you and please do not make any travel arrangements until you have received confirmation of a place.

If at any time you need to withdraw your registration or cancel your place please inform us immediately so that we can offer the place to someone else.

It is expected that you participate for the full duration of the event and allow sufficient time for travelling to the venue.

NARTI and the host institution will cover the full cost of the event and participants are asked to cover the cost of any travel and accommodation as required.

For further details about this or any other NARTI event, please contact Jo Garrick at narti@lubs.leeds.ac.uk