

Evaluating Value-Added Models for Teacher Accountability

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EDUCATION

Evaluating Value Added Models For Teacher Accountability

Olga Kosheleva, Karen Villaverde



Evaluating Value Added Models For Teacher Accountability:

Evaluating Value-added Models for Teacher Accountability Daniel F. McCaffrey, 2003 Does value added modeling VAM demonstrate the importance of teachers to student outcomes The authors clarify the primary questions raised by VAM for measuring teacher effects review the most important recent applications of VAM and discuss a variety of statistical and measurement issues that might affect the validity of VAM inferences The authors identify numerous possible sources of error and bias in teacher effects and recommend a number of steps for future research into these potential errors Are Value-added Models for High-stakes Teacher Accountability Arbitrary and Capricious? Leila Melanie Melhem, 2012 Value added models are complex statistical formulas that aim to isolate the effect a teacher has on student learning States and districts across the nation are adopting laws and policies that will evaluate teachers in part using the results provided by value added models In many states and districts these evaluations will be used to inform high stakes decisions about teacher salary and retention However value added models are imperfect tools for assessing teacher effectiveness and many scholars have argued that they are not appropriate for use in high stakes decisions This Article provides a brief history of the use of value added models in public education and summarizes the major criticisms of using value added models In this context the Article analyzes and evaluates the extent to which substantive due process claims brought by teachers adversely affected by the results of value added models will be successful The Article concludes that while the system as a whole is rationally related to the objective of improving the overall effectiveness of the teaching workforce in certain cases individual teachers will be able to successfully claim that the results of their value added model led to a termination that was arbitrary and capricious Finally the paper offers some recommendations to states and school districts on how to implement an evaluation system using value added models to avoid substantive due process violations **Value-added Assessment in Practice**

Daniel F. McCaffrey, Laura S. Hamilton, 2007 Value added assessment VAA systems use statistical techniques to analyze test score data VAA data is intended to help educators make more informed decisions about curriculum and instruction The authors examined the rollout of Pennsylvania's VAA program and found that in its pilot phase the program had little effect on student achievement and received limited use by most principals and teachers at schools participating in the program

Evaluating and Rewarding the Quality of Teachers: International Practices OECD, 2009-11-06 This book identifies good practices in the design and implementation of evaluation and teacher incentive systems from various perspectives through formulation stakeholder negotiation implementation monitoring and follow up **International Encyclopedia of Education**, 2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most fascinating yet complex fields of study in social science Unequaled in its combination of authoritative scholarship and comprehensive coverage International Encyclopedia of Education Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the

twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and multidisciplinary subject coverage of the Editorial Board ensure a balanced and objective academic framework with 1 500 contributors representing over 100 countries capturing a complete portrait of this evolving field A totally new work revamped with a wholly new editorial board structure and brand new list of meta sections and articles Developed by an international panel of editors and authors drawn from senior academia Web enhanced with supplementary multimedia audio and video files hotlinked to relevant references and sources for further study Incorporates ca 1 350 articles with timely coverage of such topics as technology and learning demography and social change globalization and adult learning to name a few Offers two content delivery options print and online the latter of which provides anytime anywhere access for multiple users and superior search functionality via ScienceDirect as well as multimedia content including audio and video files

Evaluating Teaching James H. Stronge, 2005-11-02 This invaluable resource demonstrates how to foster the development of highly qualified teachers through designing and implementing a solid teacher evaluation system

Measurement Issues and Assessment for Teaching Quality Drew H. Gitomer, 2009 A comprehensive text that allows headteachers and school managers to monitor teacher quality

Improving Large-scale Assessment in Education Marielle Simon, Kadriye Ercikan, Michel Rousseau, 2013 This book focuses on central issues that are key components of successful planning development and implementation of LSAs The book's main distinction is its focus on practice based cutting edge research This is achieved by having chapters co authored by world class researchers in collaboration with measurement practitioners

Psychometrics C.R. Rao, Sandip Sinharay, 2007 This volume representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work While the use of statistics in these fields has a long and rich history explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change spawning the development of new methods and innovative adaptations of standard methods Since the literature is highly scattered the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users The volume spans a cross section of standard topics oriented toward users in the current evolving field as well as special topics in much need which have more recent origins This volume was prepared especially keeping the applied statisticians in mind emphasizing applications oriented methods and techniques including references to appropriate software when relevant The contributors are internationally renowned experts in their respective areas This volume addresses emerging statistical challenges in epidemiological biomedical and pharmaceutical research It features methods for

assessing Biomarkers analysis of competing risks clinical trials including sequential and group sequential crossover designs cluster randomized and adaptive designs and structural equations modelling and longitudinal data analysis *Getting Value Out of Value-Added* National Academy of Education, National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Value-Added Methodology for Instructional Improvement, Program Evaluation, and Educational Accountability, 2010-02-25 Value added methods refer to efforts to estimate the relative contributions of specific teachers schools or programs to student test performance In recent years these methods have attracted considerable attention because of their potential applicability for educational accountability teacher pay for performance systems school and teacher improvement program evaluation and research Value added methods involve complex statistical models applied to test data of varying quality Accordingly there are many technical challenges to ascertaining the degree to which the output of these models provides the desired estimates Despite a substantial amount of research over the last decade and a half overcoming these challenges has proven to be very difficult and many questions remain unanswered at a time when there is strong interest in implementing value added models in a variety of settings The National Research Council and the National Academy of Education held a workshop summarized in this volume to help identify areas of emerging consensus and areas of disagreement regarding appropriate uses of value added methods in an effort to provide research based guidance to policy makers who are facing decisions about whether to proceed in this direction **Left Behind in the Race to the Top** Julie A. Gorlewski, Brad J. Porfilio, 2013-08-01 Public education is suffering attacks that are well funded and extraordinarily complex and multifaceted These conditions make it difficult for educators and citizens to gather the information they need to mount meaningful resistance especially since mainstream media tends to be uncritically supportive of neoliberal reforms The Orwellian language of reforms is adopted and promoted through news outlets politicians and film thus arguments against these reforms must bubble up through social media and alternative outlets By providing a coherent comprehensive description of contemporary neoliberal initiatives and analyzing their effects on students teachers administrators and teacher education this book will allow educators parents students and citizens to strengthen their resolve to save public education and potentially work to preserve the promise of democracy This book examines and uncovers the effects of standardization and privatization on public education Contributors consider the how of standardized curriculum and assessment coupled with philanthropic and corporate pressure have influenced the experiences of students parents and teachers Divided in sections entitled Testing Testing Privatization and Militarization Redefining Schools Alienation Displacing Students and Teachers and Resistance Opting Out and Hope for Change this text offers a combination of information and inspiration for teachers teacher educators policymakers parents and anyone interested in understanding the current state of public education *Student Growth Measures in Policy and Practice* Kimberly Kappler Hewitt, Audrey Amrein-Beardsley, 2016-10-05 This book examines the intersection of policy and practice in

the use of student growth measures SGMs for high stakes purposes as per such educator evaluation systems The book also focuses on examinations of educators perceptions of and reactions to the use of SGMs ethical implications pertaining to the use of SGMs contextual challenges when implementing SGMs and legal implications of SGM use The use of student test score data has been the cornerstone of the recent transfiguration of educator evaluation systems in forty two states and the District of Columbia Three leading voices on SGMs Sean Corcoran Henry Braun and David Berliner also serve as section and concluding commentators

Assessing Teachers for Professional Certification Lawrence Ingvarson, John

Hattie, 2008-02-04 The National Board for Professional Teaching Standards NBPTS in the USA is the most ambitious and successful attempt by any country to establish a certification system for recognizing and rewarding teachers who reach high professional standards This book focuses on The National Board for Professional Teaching Standards NBPTS

How Interval and Fuzzy Techniques Can Improve Teaching Olga Kosheleva, Karen Villaverde, 2017-10-23 This book explains how to teach better and presents the latest research on processing educational data and presents traditional statistical techniques as well as probabilistic interval and fuzzy approaches Teaching is a very rewarding activity it is also a very difficult one because it is largely an art There is a lot of advice on teaching available but it is usually informal and is not easy to follow To remedy this situation it is reasonable to use techniques specifically designed to handle such imprecise knowledge the fuzzy logic techniques Since there are a large number of statistical studies of different teaching techniques the authors combined statistical and fuzzy approaches to process the educational data in order to provide insights into improving all the stages of the education process from forming a curriculum to deciding in which order to present the material to grading the assignments and exams The authors do not claim to have solved all the problems of education Instead they show using numerous examples that an innovative combination of different uncertainty techniques can improve teaching The book offers teachers and instructors valuable advice and provides researchers in pedagogical and fuzzy areas with techniques to further advance teaching

Using Equity Audits to Create Equitable and Excellent Schools Linda Skrla, Kathryn Bell

McKenzie, James Joseph Scheurich, 2009-05-05 Use the power of equity audits to help eliminate achievement gaps and educational bias If you've heard about equity audits but aren't really sure how to use them in your school you are not alone This resource written by well known authors and experts in the areas of equity and achievement expands school leaders understanding of how to interpret data in order to make equity audits work and provides practical easy to implement strategies for using this school assessment approach to help ensure a high quality education for all students regardless of socio economic class Grounded solidly in theory this book demonstrates how audits can help not only in developing fair programs that provide all students with the opportunity to reach their potential but also for hiring training and retaining good teachers Readers will discover how to remedy inequalities in student achievement by using A set of inequity indicators for evaluating schools generating essential data and identifying problem areas The NCLB Act in a positive way to create

equity Nine skill sets for improved equity oriented teaching Charts graphs and support materials that can be customized for specific settings Ideal for helping principals develop school based equity audits with confidence Using Equity Audits to Create Equitable and Excellent Schools can also be used by superintendents to increase equity awareness at the district level

Measuring Improvements in Learning Outcomes Best Practices to Assess the Value-Added of Schools OECD,2008-10-27 This groundbreaking report provides examples of best practices in value added modelling for measuring school performance

How to Create World Class Teacher Compensation Allan Odden,2008 This presentation is based on the following principles 1 The key accountability for schools is to improve student performance 2 Teachers in the classroom including those in hard to staff fields such as math and special education and their instructional practice are the single most important factors that will lead to improved student performance 3 Teacher compensation is the single biggest part of the education budget often more than 60% 4 Therefore linking pay to teacher performance instructional practice that produces student learning gains is the best way to expend money in a way that ultimately improves student performance This book shows how the connections among those principles are playing Web ed

Information Quality Ron S. Kenett,Galit Shmueli,2016-10-13 Provides an important framework for data analysts in assessing the quality of data and its potential to provide meaningful insights through analysis Analytics and statistical analysis have become pervasive topics mainly due to the growing availability of data and analytic tools Technology however fails to deliver insights with added value if the quality of the information it generates is not assured Information Quality InfoQ is a tool developed by the authors to assess the potential of a dataset to achieve a goal of interest using data analysis Whether the information quality of a dataset is sufficient is of practical importance at many stages of the data analytics journey from the pre data collection stage to the post data collection and post analysis stages It is also critical to various stakeholders data collection agencies analysts data scientists and management This book Explains how to integrate the notions of goal data analysis and utility that are the main building blocks of data analysis within any domain Presents a framework for integrating domain knowledge with data analysis Provides a combination of both methodological and practical aspects of data analysis Discusses issues surrounding the implementation and integration of InfoQ in both academic programmes and business industrial projects Showcases numerous case studies in a variety of application areas such as education healthcare official statistics risk management and marketing surveys Presents a review of software tools from the InfoQ perspective along with example datasets on an accompanying website This book will be beneficial for researchers in academia and in industry analysts consultants and agencies that collect and analyse data as well as undergraduate and postgraduate courses involving data analysis

The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation Bruce B. Frey,2018-01-29 In an era of curricular changes experiments and high stakes testing educational measurement and evaluation are more important than ever In addition to expected entries covering the basics of traditional theories and methods The SAGE Encyclopedia of Educational

Research Measurement and Evaluation also covers important sociopolitical issues and trends influencing the future of that research and practice Textbooks handbooks monographs and other publications focus on various aspects of educational research measurement and evaluation but to date there exists no major reference guide for students new to the field This comprehensive work fills that gap covering traditional areas while pointing the way to future developments Key Features Nearly 700 signed entries are contained in an authoritative work spanning four volumes and available in electronic and or print formats Although organized A to Z front matter includes a Reader s Guide grouping entries thematically to help students interested in a specific aspect of education research measurement and evaluation to more easily locate directly related entries Back matter includes a Chronology of the development of the field a Resource Guide to classic books journals and associations and a detailed Index Entries conclude with Further Readings and cross references to related entries The Index Reader s Guide themes and cross references combine to provide a robust search and browse in the electronic version

Promoting and Sustaining a Quality Teacher Workforce Alexander W. Wiseman, Gerald K. LeTendre, 2015-10-27 The volume considers teacher professionalization by examining how to create pipelines from secondary education into teaching preparing teacher educators creating linkages between providers of teacher education and the schools

Evaluating Value Added Models For Teacher Accountability: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Evaluating Value Added Models For Teacher Accountability : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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