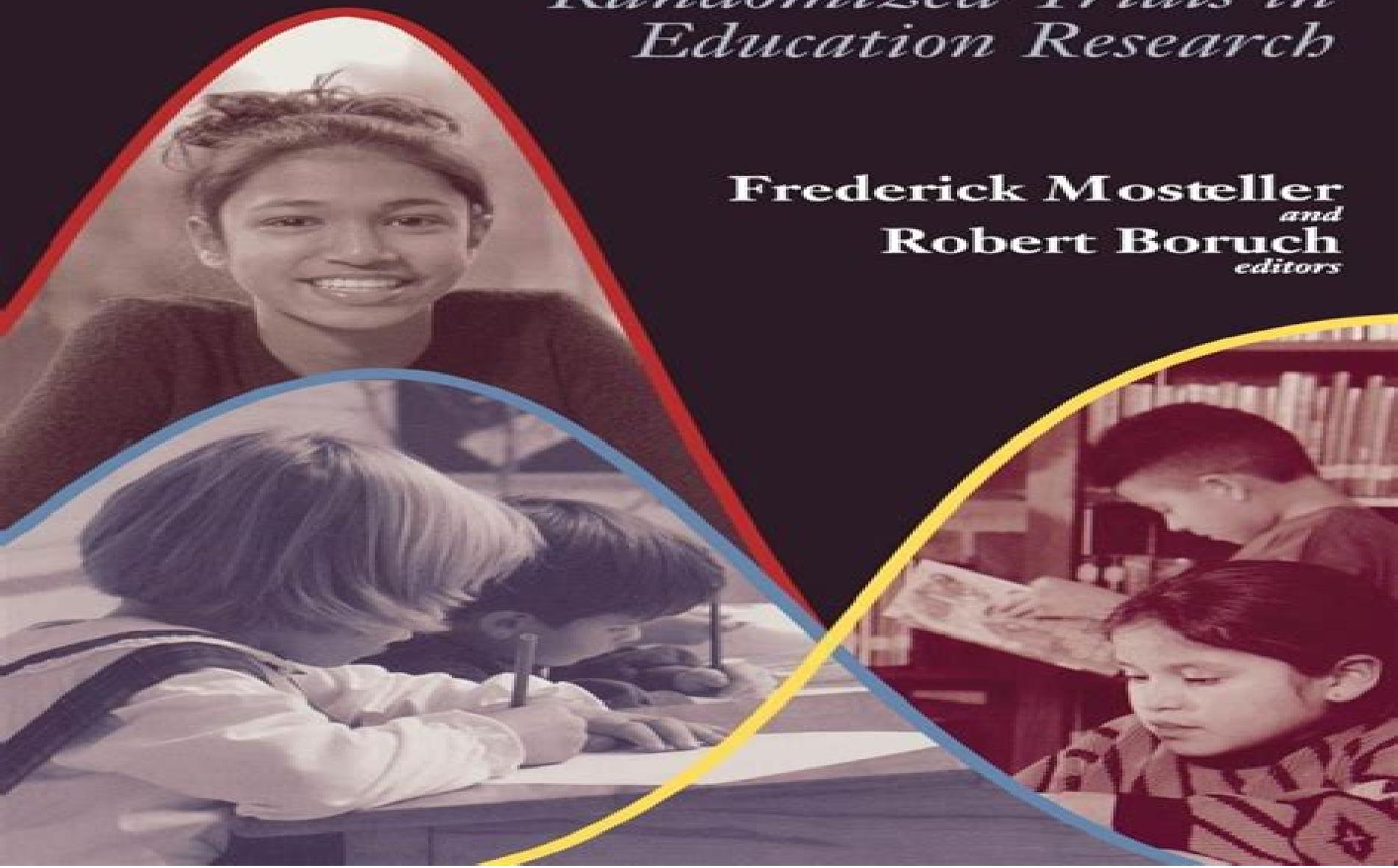


# Evidence Matters

*Randomized Trials in  
Education Research*

**Frederick Mosteller**  
*and*  
**Robert Boruch**  
*editors*



# Evidence Matters Randomized Trials In Education Research

**Patti Lather**



## **Evidence Matters Randomized Trials In Education Research:**

Evidence Matters Frederick F. Mosteller, Robert F. Boruch, 2004-05-13 Opinions about education programs and practices are offered frequently by children parents teachers and policymakers Credible studies of the impact of programs on the performance of children are far less frequent Researchers use a variety of tools to determine their impact and efficacy including sample surveys narrative studies and exploratory research However randomized field trials which are commonly used in other disciplines are rarely employed to measure the impact of education practice Evidence Matters explores the history and current status of research in education and encourages the more frequent use of such trials Judith Gueron Manpower Demonstration Research Corporation discusses the challenges involved in randomized trials and offers practical advice drawn experience Robert Boruch Wharton School University of Pennsylvania Dorothy de Moya Campbell Collaboration Secretariat and Brooke Snyder University of Pennsylvania explore the use of randomized field trials in education and other fields David Cohen Stephen Raudenbush and Deborah Loewenberg Ball all from the University of Michigan review the history of progress in education over the past forty years and urge increased research on coherent instruction regimes Maris Vinovskis University of Michigan examines the history and role of the U S Department of Education in developing rigorous evaluation of federal programs and suggests a new National Center for Evaluation and Development Thomas Cook and Monique Renee Payne both from Northwestern University take on the claim that randomized field trials are inappropriate in the U S education system Gary Burtless Brookings Institution explores the political and professional factors that influence randomized field trials in economic programs examining possible explanations for their lack of frequent use in education Carol Weiss Harvard University provides a brief history of community studies in the *Handbook of Education Policy Research* Gary Sykes, Barbara Schneider, David N. Plank, 2012-09-10 Co published by Routledge for the American Educational Research Association AERA Educational policy continues to be of major concern Policy debates about economic growth and national competitiveness for example commonly focus on the importance of human capital and a highly educated workforce Defining the theoretical boundaries and methodological approaches of education policy research are the two primary themes of this comprehensive AERA sponsored Handbook Organized into seven sections the Handbook focuses on 1 disciplinary foundations of educational policy 2 methodological perspectives 3 the policy process 4 resources management and organization 5 teaching and learning policy 6 actors and institutions and 7 education access and differentiation Drawing from multiple disciplines the Handbook s over one hundred authors address three central questions What policy issues and questions have oriented current policy research What research strategies and methods have proven most fruitful And what issues questions and methods will drive future policy research Topics such as early childhood education school choice access to higher education teacher accountability and testing and measurement cut across the 63 chapters in the volume The politics surrounding these and other issues are objectively analyzed by authors and commentators Each of the seven sections

concludes with two commentaries by leading scholars in the field The first considers the current state of policy design and the second addresses the current state of policy research This book is appropriate for scholars and graduate students working in the field of education policy and for the growing number of academic government and think tank researchers engaged in policy research For more information on the American Educational Research Association please visit <http://www.aera.net>

**Reevaluating Evaluation** Laura M. Desimone, 2018-12-07 In the context of the evolution of education program evaluation and the current emphasis on scientific precision this special issue presents several of the challenges to program evaluation that scholars are facing today In addition it shares recent insights and experiences that will contribute to continued improvement of program evaluation and responds to the call for more exactness without losing sight of the lessons learned from evaluation over the past several decades The eight papers address five main areas evaluation design instrumentation implementation politics and analysis As a whole this issue is designed shed light on the five issues as well as provide information useful for those interested in increasing the rigor of education research to increase the ability to improve schools

Education Research On Trial Pamela B. Walters, Annette Lareau, Sheri Ranis, 2009-01-13 Many have attacked education research as failing to meet standards of scientific rigor The thoughtful essays in this book offer an analysis of this debate on the failings of education research

A Companion to Research in Education Alan D. Reid, E. Paul Hart, Michael A. Peters, 2013-11-11 This volume offers a unique commentary on the diverse ways that educational inquiry is conceived designed and critiqued An international team of scholars examines cross cutting themes of how research in education is conceptualised characterised contextualised legitimated and represented Contributions include specially commissioned essays critical commentaries vignettes dialogues and cases Each section discusses the significance of a complex terrain of ideas and critiques that can inform thinking and practice in educational research The result is a thorough and accessible volume that offers fresh insights into the perspectives and challenges that shape diverse genres of research in education

**Credible and Actionable Evidence** Stewart I. Donaldson, Christina A. Christie, Melvin M. Mark, 2014-09-10 Addressing one of the most important and contentious issues challenging applied research and evaluation practice today what constitutes credible and actionable evidence this volume offers a balanced and current context in which to analyze the long debated quantitative qualitative paradigms In the Second Edition the contributors a veritable who's who in evaluation discuss the diversity and changing nature of credible and actionable evidence offer authoritative guidance about using credible and actionable evidence explain how to use it to provide rigorous and influential evaluations and include lessons from their own applied research and evaluation to suggest ways to address the key issues and challenges Reflecting the latest developments in the field and covering both experimental and non experimental methods the new edition includes revised and updated chapters summaries of strengths and weaknesses across varied approaches and contains diverse definitions of evidence Also included are two new chapters on assessing credibility and synthesizing evidence for policy makers This is a valuable

resource for students and others interested in how to best study and evaluate programs policies organizations and other initiatives designed to improve aspects of the human condition and societal well being

**The Evidential Basis of “Evidence-Based Education”** Adrian Simpson, 2020-09-10 Evidence based education EBE is a catchline for policy makers and school leaders alike with its advocates promoting their work as being rigorous and scientific The chapters in this book written by leading educators and philosophers place this approach in context and challenge whether the arguments it leads to live up to the hype EBE advocates promote particular restricted approaches to determining policy and practice in schools with only some forms of evidence accepted as legitimate Experimental methods designed for the well controlled environments of science and medicine in which subjects and treatments can be isolated are nonetheless promoted as the gold standard even when transposed to complex social situations of interacting teachers and learners This book explores some of the problems with this approach It examines the background to disputes about evidence the reasons EBE arguments have become so powerful in modern bureaucracies the way practitioners might reason using evidence and the concerns about key notions of rigour science representativeness and effect size which are often mistakenly interpreted in EBE The chapters in this book were originally published in a special issue of the journal *Educational Research and Evaluation* (*Post*)*Critical Methodologies: The Science Possible After the Critiques* Patti Lather, 2017-02-03 In the World Library of Educationalists series international experts themselves compile career long collections of what they judge to be their finest pieces extracts from books key articles salient research findings major theoretical and practical contributions so the world can read them in a single manageable volume Readers will be able to follow the themes and strands and see how their work contributes to the development of the field *Post Critical Methodologies* forms a chronology through the texts and concepts that span Patti Lather s career Examining post critical feminist and poststructural theories Lather s work is organized into thematic sections that span her 35 years of study in this field These sections include original contributions formed from Lather s feminism and critical theory background They contain her most cited works on feminist research and pedagogy and form a collection of both early and recent writings on the post and post post with a focus on critical policy studies and the future of post qualitative work With a focus on the implications for qualitative inquiry given the call for scientifically based research in education this compelling overview moves through Lather s progressive thoughts on bridging the gap between quantitative and qualitative research in education and provides a unique commentary on some of the most important issues in higher education over the last 30 years This compilation of Lather s contribution to educational thinking will prove compelling reading to all those engaged in student learning in higher education worldwide [Evidence in Education](#) Centre for Educational Research and Innovation, 2007 Education policies and systems in all OECD countries are coming under increasing pressure to show greater accountability and effectiveness and it is crucial that educational policy decisions are made based on the best evidence possible This book brings t

**Examining the Experimental Designs and Statistical**

**Power of Group Randomized Trials Funded by the Institute of Education Sciences** Jessaca K. Spybrook,2007

*Fundamental Issues in Evaluation* Nick L. Smith,Paul R. Brandon,2007-10-25 Providing state of the art perspectives on what evaluation is its purpose and how to ensure it is done well this book brings together major evaluation researchers from a variety of social and behavioral science disciplines Each chapter identifies a fundamental issue facing the field today considers its implications for theory method practice or the profession and explores one or more approaches to dealing with the issue Among the topics addressed are the nature of expertise in evaluation how to build a better evidence base for evaluation theory promoting cultural competence in evaluation how to synthesize evaluation research findings ways to involve stakeholders in decision making and much more Misleading Evidence and Evidence-Led Policy Lawrence W. Sherman,2003-09 Research evidence can and should have an important role in shaping public policy Just as much of the medical community has embraced the concept of evidence based medicine increasing numbers of social scientists and government agencies are calling for an evidence based approach to determine which social programs work and which ones don t It is an irony not lost on the social scientists writing for the September volume of *The Annals* that the first use of experimental methods in medicine to test the effects of Streptomycin on tuberculosis in the late 1940s was actually conducted by an economist But while more than one million clinical trials in medicine have been conducted since that time only about 10 000 have been conducted to evaluate whether social programs achieve their intended effects Authors of the September volume argue that this level of investment in the gold standard of research designs is insufficient for a wide range of reasons Randomized controlled trials for example are far better at controlling selection biases and chance effects than are other observational methods while econometric and statistical techniques that seek to correct for bias fall short of their promise The volume dramatically demonstrates that alternative methods generate different and often substantially wrong estimates of program effects Some research based on nonexperimental research designs actually mislead policy makers and practitioners into supporting programs that don t work while ignoring others that do Authors of this volume also directly address critiques of experimental designs which range from questions about their practicality to their ethics Some of these arguments are well taken but addressable The authors however reject other arguments against controlled tests as unfounded and damaging to social science Policymakers will find these articles invaluable in better understanding how alternative research methods can mislead as much as enlighten Students and researchers will be confronted with powerful arguments that question the use of nonexperimental techniques to estimate program effects This volume throws the gauntlet down We challenge you to pick it up **Evidence and Decision Making** Pamela A. Moss,2007 **Academe** American Association of University Professors,2004 *The Voice of Evidence in Reading Research* Peggy D. McCardle,Vinita Chhabra,2004 A masterful synthesis of information from leading experts in the field this accessible resource helps school administrators educators and specialists answer complex questions about scientifically based reading research and make informed choices

about t **Journal of Technology Education** ,2008 Evidence-based Practice in the Early Childhood Field Virginia  
Buysse,Patricia W. Wesley,2006 The concept of evidence based practice is helping early educators special educators early  
interventionists child care professionals mental health professionals social workers health care professionals and others work  
together more effectively to transform the services provided to children and families This unique book defines the evidence  
based practice movement and explains how it is empowering professionals to deliver the most effective interventions  
available The authors examine how evidence based practice is changing the way research is conducted how research findings  
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Evidence in Education Jennifer Lee Frank,2008 **Symposium** ,2008

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