

Howard Wainer

Using Evidence to
Uncover Misguided
Education Policies

UNEDUCATED GUESSES



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Howard Wainer



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Uneducated Guesses Howard Wainer, 2011-08-08 What statistical evidence shows us about our misguided educational policies Uneducated Guesses challenges everything our policymakers thought they knew about education and education reform from how to close the achievement gap in public schools to admission standards for top universities In this explosive book Howard Wainer uses statistical evidence to show why some of the most widely held beliefs in education today and the policies that have resulted are wrong He shows why colleges that make the SAT optional for applicants end up with underperforming students and inflated national rankings and why the push to substitute achievement tests for aptitude tests makes no sense Wainer challenges the thinking behind the enormous rise of advanced placement courses in high schools and demonstrates why assessing teachers based on how well their students perform on tests a central pillar of recent education reforms is woefully misguided He explains why college rankings are often lacking in hard evidence why essay questions on tests disadvantage women why the most grievous errors in education testing are not made by testing organizations and much more No one concerned about seeing our children achieve their full potential can afford to ignore this book With forceful storytelling wry insight and a wealth of real world examples Uneducated Guesses exposes today's educational policies to the light of empirical evidence and offers solutions for fairer and more viable future policies *Fundamentals of Bayesian*

Epistemology 2 Michael G. Titelbaum, 2022-04-14 Bayesian ideas have recently been applied across such diverse fields as philosophy statistics economics psychology artificial intelligence and legal theory *Fundamentals of Bayesian Epistemology* examines epistemologists use of Bayesian probability mathematics to represent degrees of belief Michael G Titelbaum provides an accessible introduction to the key concepts and principles of the Bayesian formalism enabling the reader both to follow epistemological debates and to see broader implications Volume 1 begins by motivating the use of degrees of belief in epistemology It then introduces explains and applies the five core Bayesian normative rules Kolmogorov's three probability axioms the Ratio Formula for conditional degrees of belief and Conditionalization for updating attitudes over time Finally it discusses further normative rules such as the Principal Principle or indifference principles that have been proposed to supplement or replace the core five Volume 2 gives arguments for the five core rules introduced in Volume 1 then considers challenges to Bayesian epistemology It begins by detailing Bayesianism's successful applications to confirmation and decision theory Then it describes three types of arguments for Bayesian rules based on representation theorems Dutch Books and accuracy measures Finally it takes on objections to the Bayesian approach and alternative formalisms including the statistical approaches of frequentism and likelihoodism The Pedagogy of Standardized Testing Arlo Kempf, 2016-04-29 Based on a large scale international study of teachers in Los Angeles Chicago Ontario and New York this book illustrates the ways increased use of high stakes standardized testing is fundamentally changing education in the US and Canada with a negative overall impact on the way teachers teach and students learn Standardized testing makes understanding students strengths

and weaknesses more difficult and class time spent on testing consumes scarce time and attention needed to support the success of all students further disadvantaging ELLs students with exceptionalities low income and racially minoritized students Teacher Performance Assessment and Accountability Reforms Julie H. Carter, Hilary A. Lochte, 2016-12-20 Winner of the 2017 AESA Critics Choice Book Award This book provides multiple perspectives on the dual struggle that teacher educators currently face as they make sense of edTPA while preparing their pre service teachers for this high stakes teacher exam The adoption of nationalized teacher performance exams has raised concerns about the influence of corporate interests in teacher education the objectivity of nationalized teaching standards and ultimately the overarching political and economic interests shaping the process format and nature of assessment itself Through an arc of scholarship from various perspectives this book explores a range of questions about the goals and interests at work in the roll out of the edTPA assessment and gives voice to those most affected by these policy changes teacher educators and teacher education students

How Not to Be Wrong Jordan Ellenberg, 2014-05-29 Witty compelling and just plain fun to read Evelyn Lamb Scientific American The Freakonomics of math a math world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules laid down by the ancients and not to be questioned In How Not to Be Wrong Jordan Ellenberg shows us how terribly limiting this view is Math isn't confined to abstract incidents that never occur in real life but rather touches everything we do the whole world is shot through with it Math allows us to see the hidden structures underneath the messy and chaotic surface of our world It's a science of not being wrong hammered out by centuries of hard work and argument Armed with the tools of mathematics we can see through to the true meaning of information we take for granted How early should you get to the airport What does public opinion really represent Why do tall parents have shorter children Who really won Florida in 2000 And how likely are you really to develop cancer How Not to Be Wrong presents the surprising revelations behind all of these questions and many more using the mathematician's method of analyzing life and exposing the hard won insights of the academic community to the layman minus the jargon Ellenberg chases mathematical threads through a vast range of time and space from the everyday to the cosmic encountering among other things baseball Reaganomics daring lottery schemes Voltaire the replicability crisis in psychology Italian Renaissance painting artificial languages the development of non Euclidean geometry the coming obesity apocalypse Antonin Scalia's views on crime and punishment the psychology of slime molds what Facebook can and can't figure out about you and the existence of God Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need Math as Ellenberg says is an atomic powered prosthesis that you attach to your common sense vastly multiplying its reach and strength With the tools of mathematics in hand you can understand the world in a deeper more meaningful way How Not to Be Wrong will show you how **Mismeasuring Schools' Vital Signs** Steve Rees, Jill Wynns, 2022-09-29 This book helps school and district leaders avoid the pitfalls that

await those making sense of their school's data. Whether you're interpreting achievement gaps, graduation rates, or test results, you're at risk of reaching a mistaken judgment. By learning about common errors and how they're made, you'll be ready to choose safer, surer paths to making better sense of the wealth of data in your school or district. The authors help educators build better evidence, see conclusions more clearly, and explain the data more persuasively. Special features include Questions to Spark Discussion in each chapter, encourage school site, district leaders, and board trustees to apply each chapter's content to their own situations. Data visualizations, together with the authors' interpretations, will help you learn how to do visual analysis and reach the right conclusions. Practical tips provide clear guidance. Supplemental resources can be found at the book's website, k12measures.com, including interactive data visualizations and analytic exercises to help you learn a concept by doing.

Measuring Success Jack Buckley, Lynn Letukas, Ben Wildavsky, 2018-01-15. Once touted as the single best way to measure students from diverse backgrounds, schools and experiences, standardized college admissions tests are now criticized for being hopelessly biased in favor of traditionally privileged groups. Out of this has emerged the test optional movement that seeks to allow students to apply to schools without sitting through the rigors of the SAT. This book takes a step back and applies rigorous empirical measurements to these rival claims. Drawing upon the expertise of higher education researchers, admissions officers, enrollment managers, and policy professionals, this edited volume is among the first to investigate the research and policy implications of test optional practices. It was conceived in response to the editors' frustration with the fragmented and incomplete state of the literature around the contemporary debate on college admissions testing. Many students, teachers, parents, policymakers, frankly, nearly anyone immediately outside the testing industry and college admissions, have little understanding of how admissions tests are used. This lack of transparency has often fueled beliefs that college assessments are biased, misused, or overused. Decades of research on various aspects of testing, such as the predictive validity of assessments, makes a compelling case for their value. But all too frequently, researchers and admissions officers talk past one another instead of engaging substantively. This collection intends to remedy the situation by bringing these disparate voices together. This book is designed for provosts, enrollment managers, and college admissions officers seeking to strike the proper balance between uniformity and fairness.

Truth or Truthiness Howard Wainer, 2016. Escaping the clutches of truthiness begins with one simple question: what is the evidence? Howard Wainer shows how the sceptical mindset of a data scientist can expose truthiness, nonsense, and outright deception. He evaluates the evidence, or lack thereof, supporting claims in many fields, with special emphasis in education.

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