

Deborah G. Mayo

Error and
the Growth of
Experimental
Knowledge

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Error And The Growth Of Experimental Knowledge

Zoltan Dienes



Error And The Growth Of Experimental Knowledge:

Error and the Growth of Experimental Knowledge Deborah G. Mayo, 1996-07-15 We may learn from our mistakes but Deborah Mayo argues that where experimental knowledge is concerned we haven't begun to learn enough Error and the Growth of Experimental Knowledge launches a vigorous critique of the subjective Bayesian view of statistical inference and proposes Mayo's own error statistical approach as a more robust framework for the epistemology of experiment Mayo genuinely addresses the needs of researchers who work with statistical analysis and simultaneously engages the basic philosophical problems of objectivity and rationality Mayo has long argued for an account of learning from error that goes far beyond detecting logical inconsistencies In this book she presents her complete program for how we learn about the world by being shrewd inquirers of error while gloves off Her tough practical approach will be important to philosophers historians and sociologists of science and will be welcomed by researchers in the physical biological and social sciences whose work depends upon statistical analysis

Error and the Growth of Experimental Knowledge Deborah G. Mayo, 1996-08-15 This text provides a critique of the subjective Bayesian view of statistical inference and proposes the author's own error statistical approach as an alternative framework for the epistemology of experiment It seeks to address the needs of researchers who work with statistical analysis

Going Amiss in Experimental Research Giora Hon, Jutta Schickore, Friedrich Steinle, 2008-12-04 Like any goal oriented procedure experiment is subject to many kinds of failures These failures have a variety of features depending on the particulars of their sources For the experimenter these pitfalls should be avoided and their effects minimized For the historian philosopher of science and the science educator on the other hand they are instructive starting points for reflecting on science in general and scientific method and practice in particular Often more is learned from failure than from confirmation and successful application The identification of error its source its context and its treatment shed light on both practices and epistemic claims This book shows that it is fruitful to bring to light forgotten and lost failures subject them to analysis and learn from their moral The study of failures errors pitfalls and mistakes helps us understand the way knowledge is pursued and indeed generated The book presents both historical accounts and philosophical analyses of failures in experimental practice It covers topics such as error as an object of study learning from error concepts and dead ends instrumental artifacts and surprise and puzzlement This book will be of interest to historians philosophers and sociologists of science as well as to practicing scientists and science educators

In the Scope of Logic, Methodology and Philosophy of Science Peter Gärdenfors, Jan Wolenski, K. Kijania-Placek, 2002-12-31 This is the first of two volumes containing papers submitted by the invited speakers to the 11th International Congress of Logic Methodology and Philosophy of Science The book presents the state of the intellectual discourse in the respective fields

The Spectacle of the Growth of Knowledge and Swift's Satires on Science Beat Affentranger, 2000 This is a revisionist study of seventeenth and eighteenth century satires on science with an emphasis on the writings of Jonathan Swift and to a

lesser degree Samuel Butler and other satirists To say as some literary commentators do that the satirists attacked only pseudo scientists who failed to employ the empirical method properly is to beg a crucial question how could the satirists possibly have distinguished the genuine scientist from the crank By a failsafe set of Baconian principles perhaps No the matter is more complicated I read the satiric literature on early modern science against a totally different understanding of what science is how it came into being and how it developed Satire has a decided advantage over scientific discourse It can rely on common sense scientific discourse often cannot There is always a counter intuitive element in the genuinely new New knowledge is in some ways always at odds with received assumptions of what is possible reasonable or probable Satire on science I suggest can be seen as a systematic exploitation of that gap of plausibility Natural philosophers of the late seventeenth and early eighteenth century were keenly aware of their discursive disadvantage and at times even hesitated to publish their material They feared the satirists and the wits who they knew would find it easy to debunk their work on commonsense grounds But commonsense and laughter are unreliable yardsticks for measuring scientific merit Ironically the satirists and the natural philosophers shared some of the most fundamental epistemological assumptions of early English empiricism for instance the stereotypical Baconian assumption that knowledge about nature would come to us unambiguously once the mind was freed from preconception and bias It is an assumption about scientific method that is decidedly hostile towards speculative hypothesising Indeed the motto of the day was not bold speculation and learning from error but avoiding error at all costs Yet in practice error or what appeared to be erroneous was of course frequent for science is an essentially speculative enterprise Natural philosophers of the early modern period however were embarrassed by their failures and tried to explain them away The satirists on the other hand could prey on these mistakes and conclude that the work of the natural philosophers was purely speculative The reason for this rigid anti speculative epistemological stance I argue was a religious one having to do with the conception of nature as a divine book that could be read like Scripture This conflation of the epistemological and the theological is especially obvious in Swift In both his satirical and non satirical writings he is obsessed with proposing proper standards of interpretation and with criticising those whom he thought had corrupted these standards Dissenters and religious enthusiasts are taken to task for their misreading of Scripture for their corrupt religious doctrine which they erroneously claim to be based on Scripture and reason The natural philosophers are accused of some similar hermeneutic sin only they have committed their interpretive transgressions against the proper interpretive standard of the book of nature Where the natural philosophers claim to have found a new more accurate way of reading the book of nature Swift I argue sees only mis readings Rhetorically Swift s satires on religious dissent perpetuate the typically Tory High Church insinuation of sectarian and heretical sexual promiscuity In his satires on science Swift makes the same insinuation with respect to natural philosophers most vividly so in A Tale of a Tub and the flying island of Laputa The study concludes with a fresh look at Swift s rational horses in part four of Gulliver s Travels **The Necessity of**

Errors John Roberts, 2020-05-05 Truth and error are interdependent claims to truth can be made only in the light of previous error In *The Necessity of Errors* John Roberts explores how up to Hegel emphasis was placed on error as something that dissolves truth and needs to be eradicated Drawing on the fragmented corpus of writing on error from Locke to Luxemburg Adorno to Vaneigem and covering five key areas from philosophy to political praxis this wide ranging account explores how we learn from error under what conditions and with what means Errors Roberts finds are productive but not in any uniform sense or under all circumstances a theory of errors needs a dialectics of error

Progress in International Relations

Theory Colin Elman, Miriam Fendius Elman, 2003-08-29 All academic disciplines periodically appraise their effectiveness evaluating the progress of previous scholarship and judging which approaches are useful and which are not Although no field could survive if it did nothing but appraise its progress occasional appraisals are important and if done well can help advance the field This book investigates how international relations theorists can better equip themselves to determine the state of scholarly work in their field It takes as its starting point Imre Lakatos's influential theory of scientific change and in particular his methodology of scientific research programs MSRP It uses MSRP to organize its analysis of major research programs over the last several decades and uses MSRP's criteria for theoretical progress to evaluate these programs The contributors appraise the progress of institutional theory varieties of realist and liberal theory operational code analysis and other research programs in international relations Their analyses reveal the strengths and limits of Lakatosian criteria and the need for metatheoretical metrics for evaluating scientific progress

The Philosophy Of Scientific Experimentation

Hans Radder, 2003-02-23 *The Philosophy of Scientific Experimentation* focuses on the identification and clarification of philosophical issues in experimental science Since the late 1980s the neglect of experiment by philosophers and historians of science has been replaced by a keen interest in the subject In this volume a number of prominent philosophers of experiment directly address basic theoretical questions develop existing philosophical accounts and offer novel perspectives on the subject rather than rely exclusively on historical cases of experimental practice Each essay examines one or more of six interconnected themes that run throughout the collection the philosophical implications of actively and intentionally interfering with the material world while conducting experiments issues of interpretation regarding causality the link between science and technology the role of theory in experimentation involving material and causal intervention the impact of modeling and computer simulation on experimentation and the philosophical implications of the design operation and use of scientific instruments

Error and Uncertainty in Scientific Practice Marcel Boumans, Giora Hon, Arthur C.

Petersen, 2015-10-06 Assessment of error and uncertainty is a vital component of both natural and social science This edited volume presents case studies of research practices across a wide spectrum of scientific fields It compares methodologies and presents the ingredients needed for an overarching framework applicable to all

Observation and Experiment in the

Natural and Social Sciences Maria Carla Galavotti, 2006-04-18 According to a long tradition in philosophy of science a

clear cut distinction can be traced between a context of discovery and a context of justification This tradition dates back to the birth of the discipline in connection with the Circles of Vienna and Berlin in the twenties and thirties of last century Convicted that only the context of justification is pertinent to philosophy of science logical empiricists identified its goal with the rational reconstruction of scientific knowledge taken as the clarification of the logical structure of science through an analysis of its language and methods Stressing justification as the proper field of application of philosophy of science logical empiricists intended to leave discovery out of its remit The context of discovery was then discarded from philosophy of science and left to sociology psychology and history The distinction between context of discovery and context of justification goes hand in hand with the tenet that the theoretical side of science can and should be kept separate from its observational and experimental components Further the final abstract formulation of theories should be analysed apart from the process behind it resulting from a tangle of context dependent factors This conviction is reflected by the distinction between theoretical and observational sentences underpinning the Hempelian view of theories as nets whose knots represent theoretical terms floating on the plane of observation to which it is anchored by rules of interpretation

Public research and private knowledge - science in times of diverse research funding Jon Leefmann, Julia Böttcher, Michael Jungert, Christoph J. Merdes, Sebastian Schuol, 2023-02-28 *Statistical Inference as Severe Testing* Deborah G. Mayo, 2018-09-20 Mounting failures of replication in social and biological sciences give a new urgency to critically appraising proposed reforms This book pulls back the cover on disagreements between experts charged with restoring integrity to science It denies two pervasive views of the role of probability in inference to assign degrees of belief and to control error rates in a long run If statistical consumers are unaware of assumptions behind rival evidence reforms they can't scrutinize the consequences that affect them in personalized medicine psychology etc The book sets sail with a simple tool if little has been done to rule out flaws in inferring a claim then it has not passed a severe test Many methods advocated by data experts do not stand up to severe scrutiny and are in tension with successful strategies for blocking or accounting for cherry picking and selective reporting Through a series of excursions and exhibits the philosophy and history of inductive inference come alive Philosophical tools are put to work to solve problems about science and pseudoscience induction and falsification

The Theory and Practice of Experimental Philosophy Justin Sytsma, Jonathan Livengood, 2015-11-27 In recent years developments in experimental philosophy have led many thinkers to reconsider their central assumptions and methods It is not enough to speculate and introspect from the armchair philosophers must subject their claims to scientific scrutiny looking at evidence and in some cases conducting new empirical research The Theory and Practice of Experimental Philosophy is an introduction and guide to the systematic collection and analysis of empirical data in academic philosophy This book serves two purposes first it examines the theory behind χ^2 phi including its underlying motivations and the objections that have been leveled against it Second the book offers a practical guide for those interested in doing

experimental philosophy detailing how to design implement and analyze empirical studies Thus the book explains the reasoning behind x phi and provides tools to help readers become experimental philosophers *Philosophy of Experimental Biology* Marcel Weber,2004-08-30 *Philosophy of Experimental Biology* explores some central philosophical issues concerning scientific research in experimental biology including genetics biochemistry molecular biology developmental biology neurobiology and microbiology It seeks to make sense of the explanatory strategies concepts ways of reasoning approaches to discovery and problem solving tools models and experimental systems deployed by scientific life science researchers and also integrates developments in historical scholarship in particular the New Experimentalism It concludes that historical explanations of scientific change that are based on local laboratory practice need to be supplemented with an account of the epistemic norms and standards that are operative in science This book should be of interest to philosophers and historians of science as well as to scientists **The Role of Technology in Science: Philosophical Perspectives** Sven Ove

Hansson,2015-05-05 This edited volume explores the interplay between philosophies in a wide ranging analysis of how technological applications in science inform our systems of thought Beginning with a historical background the volume moves on to explore a host of topics such as the uses of technology in scientific observations and experiments the salient relationship between technology and mechanistic notions in science and the ways in which today s vast and increasing computing power helps scientists achieve results that were previously unattainable Technology allows today s researchers to gather in a matter of hours data that would previously have taken weeks or months to assemble It also acts as a kind of metaphor bank providing biologists in particular with analogies the heart as a pump the nervous system as a computer network that have become common linguistic currency This book also examines the fundamental epistemological distinctions between technology and science and assesses their continued relevance Given the increasing amalgamation of the philosophies of science and technology this fresh addition to the literature features pioneering work in a promising new field that will appeal both to philosophers and scientific historiographers **Enlightenment Aberrations** David W.

Bates,2018-09-05 In *Enlightenment Aberrations* David W Bates shows that error was a complex important and by no means entirely negative concept in Enlightenment thought one that had a decisive influence in revolutionary debates on political identity and national history What can it mean to write a history of error In Bates s view all philosophy insofar as its project is the search for truth begins in error If truth is posited as a goal to be attained not as a given of some kind then error assumes a central role in the quest for truth Going beyond both liberal celebrations and postmodern critiques of Enlightenment reason Bates reveals just how crucial the problematic relation between human wandering and the mystery of truth was in eighteenth century thought The author draws on a wide range of Enlightenment thinkers including Etienne Bonnot de Condillac Jean d Alembert Marie Jean Antoine Nicolas Caritat Marquis de Condorcet Jean Jacques Rousseau and Charles Bonnet showing how they wrestled with the risk and promise of error He then demonstrates how the concept of error and its dialectical

relationship to truth played out in the political culture of the French Revolution particularly in the Terror In the final chapters Bates looks at the post revolutionary transformations of the Enlightenment discourse of error and its subsequent history in modern European thought

The Oxford Handbook of Philosophy of Science Paul Humphreys, 2016-08-04 This handbook provides both an overview of state of the art scholarship in philosophy of science as well as a guide to new directions in the discipline Section I contains broad overviews of the main lines of research and the state of established knowledge in six principal areas of the discipline including computational physical biological psychological and social sciences as well as general philosophy of science Section II covers what are considered to be the traditional topics in the philosophy of science such as causation probability models ethics and values and explanation Section III identifies new areas of investigation that show promise of becoming important areas of research including the philosophy of astronomy and astrophysics data complexity theory neuroscience simulations post Kuhnian philosophy post empiricist epistemology and emergence Most chapters are accessible to scientifically educated non philosophers as well as to professional philosophers and the contributors all leading researchers in their field bring diverse perspectives from the North American European and Australasian research communities This volume is an essential resource for scholars and students

Probability is the Very Guide of Life Henry Ely Kyburg, Mariam Thalos, 2003 This collection of philosophical essays looks at various technical problems in the use of probability theory for guidance in practical decisions This text is intended for those who already have a basic grounding in philosophy logic and probability theory

Understanding Psychology as a Science Zoltan Dienes, 2008-02-28 How can we objectively define categories of truth in scientific thinking How can we reliably measure the results of research In this ground breaking text Dienes undertakes a comprehensive historical analysis of the dominant schools of thought key theories and influential thinkers that have progressed the foundational principles and characteristics that typify scientific research methodology today This book delivers a masterfully simple though not simplistic introduction to the core arguments surrounding Popper Kuhn and Lakatos Fisher and Royall Neyman and Pearson and Bayes Subsequently this book clarifies the prevalent misconceptions that surround such theoretical perspectives in psychology today providing an especially accessible critique for student readers This book launches an informative inquiry into the methods by which psychologists throughout history have arrived at the conclusions of research equipping readers with the knowledge to accurately design and evaluate their own research and gain confidence in critiquing results in psychology research Particular attention is given to understanding methods of measuring the falsifiability of statements probabilities and the differing views on statistical inference An illuminating book for any undergraduate psychology student taking courses in critical thinking research methods BPS s core area conceptual and historical issues as well as those studying masters phd s and experienced researchers

Philosophy, Science, and History Lydia Patton, 2014-06-27 Philosophy Science and History A Guide and Reader is a compact overview of the history and philosophy of science that aims to introduce students to the groundwork of

the field and to stimulate innovative research The general introduction focuses on scientific theory change assessment discovery and pursuit Part I of the Reader begins with classic texts in the history of logical empiricism including Reichenbach's discovery justification distinction With careful reference to Kuhn's analysis of scientific revolutions the section provides key texts analyzing the relationship of HOPOS to the history of science including texts by Santayana Rudwick and Shapin and Schaffer Part II provides texts illuminating central debates in the history of science and its philosophy These include the history of natural philosophy Descartes Newton Leibniz Kant Hume and du Châtelet in a new translation induction and the logic of discovery including the Mill Whewell debate Duhem and Hanson and catastrophism versus uniformitarianism in natural history Playfair on Hutton and Lyell de Buffon Cuvier and Darwin The editor's introductions to each section provide a broader perspective informed by contemporary research in each area including related topics Each introduction furnishes proposals including thematic bibliographies for innovative research questions and projects in the classroom and in the field

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