

SCIENTIFIC DISCOVERY: CASE STUDIES

# SCIENTIFIC DISCOVERY: CASE STUDIES

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# Scientific Discovery Case Studies

**D.H. Helman**



## **Scientific Discovery Case Studies:**

**Scientific Discovery: Case Studies** Thomas Nickles, 1980-09-30 The history of science is articulated by moments of discovery Yet these moments are not simple or isolated events in science Just as a scientific discovery illuminates our understanding of nature or of society and reveals new connections among phenomena so too does the history of scientific activity and the analysis of scientific reasoning illuminate the processes which give rise to moments of discovery and the complex network of consequences which follow upon such moments Understanding discovery has not been until recently a major concern of modern philosophy of science Whether the act of discovery was regarded as mysterious and inexplicable or obvious and in no need of explanation modern philosophy of science in effect bracketed the question It concentrated instead on the logic of scientific explanation or on the issues of validation or justification of scientific theories or laws The recent revival of interest in the context of discovery indeed in the acts of discovery on the part of philosophers and historians of science represents no one particular methodological or philosophical orientation It proceeds as much from an empiricist and analytical approach as from a sociological or historical one from considerations of the logic of science as much as from the logical or extralogical contexts of scientific thought and practice But in general this new interest focuses sharply on the actual historical and contemporary cases of scientific discovery and on an examination of the act or moment of discovery in situ

**Scientific Discovery** Thomas Nickles, 1980      **Scientific Discovery** Thomas Nickles, 1980      **Companion to the History of Modern Science** G. N. Cantor, G. N. Cantor, J. R. R. Christie, M. J. S. Hodge, R. C. Olby, 2020-10-07 The 67 chapters of this book describe and analyse the development of Western science from 1500 to the present day Divided into two major sections The Study of the History of Science and Selected Writings in the History of Science the volume describes the methods and problems of research in the field and then applies these techniques to a wide range of fields Areas covered include the Copernican Revolution Genetics Science and Imperialism the History of Anthropology Science and Religion Magic and Science The companion is an indispensable resource for students and professionals in History Philosophy Sociology and the Sciences as well as the History of Science It will also appeal to the general reader interested in an introduction to the subject

Reasoning in Biological Discoveries Lindley Darden, 2006-06-26 Reasoning in Biological Discoveries brings together a series of essays which focus on one of the most heavily debated topics of scientific discovery Collected together and richly illustrated Darden's essays represent a groundbreaking foray into one of the major problems facing scientists and philosophers of science Divided into three sections the essays focus on broad themes notably historical and philosophical issues at play in discussions of biological mechanism and the problem of developing and refining reasoning strategies including interfield relations and anomaly resolution Darden summarizes the philosophy of discovery and elaborates on the role that mechanisms play in biological discovery Throughout the book she uses historical case studies to extract advisory reasoning strategies for discovery Examples in genetics molecular biology biochemistry immunology neuroscience and

evolutionary biology reveal the process of discovery in action      The New Aspects of Time M. Capek, 2012-12-06 At last his students and colleagues his friends and his friendly critics his fellow scientist and fellow philosophers have the works of Milic Capek before them in one volume aside from his books of course Now the development of his interests and his thoughts always led centrally by his concern to understand the philosophical impact of contemporary physics becomes clear In the nearly 90 essays and papers and in his book on the philosophical impact as well as his classical restatement of process philosophy in his *Bergson and Modern Physics* Professor Capek establishes one of the fundamental alternatives to the comprehension of human experience and thereby of the world Capek is certainly to be seen with respect and admiration for he has dealt with the deepest and toughest of scientific as well as metaphysical problems his major efforts in the philosophy of mind focussed upon the time of experience and in the philosophy of physics focussed upon continuity causality and again the temporal now in the world picture      Bibliography of the History of Medicine , 1984      **Taking the Naturalistic Turn, Or How Real Philosophy of Science Is Done** William Bechtel, 1993-12 This innovative book presents candid informal debates among scholars who examine the benefits and problems of studying science in the same way that scientists study the natural world      *Model-Based Reasoning in Science and Technology* Lorenzo Magnani, Claudia Casadio, 2016-07-01 This book discusses how scientific and other types of cognition make use of models abduction and explanatory reasoning in order to produce important or creative changes in theories and concepts It includes revised contributions presented during the international conference on Model Based Reasoning MBR 015 held on June 25 27 in Sestri Levante Italy The book is divided into three main parts the first of which focuses on models reasoning and representation It highlights key theoretical concepts from an applied perspective addressing issues concerning information visualization experimental methods and design The second part goes a step further examining abduction problem solving and reasoning The respective contributions analyze different types of reasoning discussing various concepts of inference and creativity and their relationship with experimental data In turn the third part reports on a number of historical epistemological and technological issues By analyzing possible contradictions in modern research and describing representative case studies in experimental research this part aims at fostering new discussions and stimulating new ideas All in all the book provides researchers and graduate students in the field of applied philosophy epistemology cognitive science and artificial intelligence alike with an authoritative snapshot of current theories and applications of model based reasoning      Niels Bohr and Contemporary Philosophy J. Faye, H. Folse, 2013-03-09 Since the Niels Bohr centenary of 1985 there has been an astonishing international surge of scholarly analyses of Bohr s philosophy Now for the first time in *Niels Bohr and Contemporary Philosophy* Jan Faye and Henry Folse have brought together sixteen of today s leading authors who have helped mould this new round of discussions on Bohr s philosophy In fifteen entirely new previously unpublished essays we discover a surprising variety of the different facets of Bohr as the natural philosopher whose framework of complementarity shaped the final phase of the quantum revolution and

influenced two generations of the century's leading physicists There is much on which the authors included here agree but there are also polar disagreements which assure us that the philosophical questions revolving around Bohr's new viewpoint will continue to be a subject of scholarly interest and discussion for years to come This collection will interest all serious students of history and philosophy of science and foundations of physics      **Metaarchaeology** Lester Embree, 2012-12-06

An idea of the philosophy of archaeology can best be gained by showing what it is what the issues are who is working in the field and how they proceed Reading Lester Embree's *Metaarchaeology* provides the best possible introduction to the field since in it several leading archaeologists show how accessible and interesting the current archaeological literature is and currently active philosophers of archaeology reveal something of the current state of discussion on the subject Bibliographies have also been developed of the philosophy of archaeology as well as of selected parts of the component that can be called metaarchaeology Finally an historical introduction has been included to show the variety of metascientific as well as orientational standpoints that philosophers of archaeology have had recourse to for over two decades followed by speculation about the future of the discipline within the philosophy of science      *Analogical Reasoning* D.H. Helman, 2013-06-29

In the last few years there has been an enormous amount of activity in the study of analogy and metaphor This is partly because of an interest of artificial intelligence researchers in simulating learning processes using analogy It also arises from critical examinations of standard theories in the philosophy of language with their inbuilt literal metaphorical distinction This volume consists of recent previously unpublished work in this area with a particular emphasis upon the role of analogies in reasoning and more generally their role in thought and language The papers are contributed by philosophers computer scientists cognitive scientists and literary critics Researchers in these fields whose focus is the study of analogy and metaphor will find much of interest in this volume These essays can also serve as an introduction to some of the major approaches taken in the investigation of analogy As noted this volume brings together the work of researchers in several different disciplines The various approaches taken with respect to the understanding of analogy tend to be rather different however the articles suggest a common conclusion Analogy and metaphor pervade thought and language their close investigation thus constitutes a valuable contribution to our understanding of persons DAVID H HELMAN Case Western Reserve University vii

**PART I CONCEPTUAL AND CATEGORICAL THEORIES OF ANALOGICAL UNDERSTANDING** MARK TURNER CATEGORIES AND ANALOGIES I want to pursue the following claims The way we categorize helps explain the way we recognize a statement as an analogy      **Philosophy of Psychology and Cognitive Science** , 2006-10-23

Psychology is the study of thinking and cognitive science is the interdisciplinary investigation of mind and intelligence that also includes philosophy artificial intelligence neuroscience linguistics and anthropology In these investigations many philosophical issues arise concerning methods and central concepts The Handbook of Philosophy of Psychology and Cognitive Science contains 16 essays by leading philosophers of science that illuminate the nature of the theories and explanations used in the investigation

of minds Topics discussed include representation mechanisms reduction perception consciousness language emotions neuroscience and evolutionary psychology Comprehensive coverage of philosophy of psychology and cognitive science Distinguished contributors leading philosophers in this area Contributions closely tied to relevant scientific research

Critical Rationalism, the Social Sciences and the Humanities I.C. Jarvie, N. Laor, 1994-12-31 An outstanding feature of this book is the broad range of the contributors drawn from Europe the Middle East and North America testifying both to the range of Professor Agassi's interests and the geographical spread of his influence Most contributors use Agassi's ideas as a springboard to engage in debate on issues or offer a contribution in an area that interests him In this volume contributors consider such questions as Agassi's philosophy of education in practice as well as in theory the impact of psychologism in philosophy the origins of critical rationalism in the Bible the debates in economics stimulated by the work of Popper and Agassi and many other topics Besides the special topics the reader gains some sense of the fruitfulness of critical rationalism in the hands of Agassi's friends and colleagues

**Computational Philosophy of Science** Paul Thagard, 1988 By applying research in artificial intelligence to problems in the philosophy of science Paul Thagard develops an exciting new approach to the study of scientific reasoning This approach uses computational ideas to shed light on how scientific theories are discovered evaluated and used in explanations Thagard describes a detailed computational model of problem solving and discovery that provides a conceptually rich yet rigorous alternative to accounts of scientific knowledge based on formal logic and he uses it to illuminate such topics as the nature of concepts hypothesis formation analogy and theory justification

*The Metaphysics of Science* Craig Dilworth, 2013-04-17 The roots of this work lie in my earlier book *Scientific Progress* which first appeared in 1981 One of its topics the distinction between scientific laws and theories is there treated with reference to the same distinction as drawn by N R Campbell in his *Physics The Elements* Shortly after completing *Scientific Progress* I read Rom Harre's *The Principles of Scientific Thinking* in which the concept of theory is even more clearly delineated than in Campbell being directly connected to the notion of a model as it was in my book In subsequent considerations regarding science Harre's work thus became my main source of inspiration with regard to theories while Campbell's remained my main source with respect to empiricallaws Around the same time I also read William Whewell's *Philosophy of the Inductive Sciences* In this work Whewell depicts principles as playing a central role in the formation of science and conceives of them in much the same way as Kant conceives of fundamental synthetic a priori judgements The idea that science should have principles as a basic element immediately made sense to me and from that time I have thought of science in terms of laws theories and principles

**Inference, Explanation, and Other Frustrations** John Earman, 2023-07-28 These provocative essays by leading philosophers of science exemplify and illuminate the contemporary uncertainty and excitement in the field The papers are rich in new perspectives and their far reaching criticisms challenge arguments long prevalent in classic philosophical problems of induction empiricism and realism By turns empirical or

analytic historical or programmatic confessional or argumentative the authors arguments both describe and demonstrate the fact that philosophy of science is in a ferment more intense than at any time since the heyday of logical positivism early in the twentieth century Contents Thoroughly Modern Men Clark Glymour and Kevin Kelly The Concept of Induction in the Light of the Interrogative Approach to Inquiry Jaakko Hintikka Aristotelian Natures and Modern Experimental Method Nancy Cartwright Genetic Inference A Reconsideration of David Hume's Empiricism Barbara D Massey and Gerald J Massey Philosophy and the Exact Sciences Logical Positivism as a Case Study Michael Friedman Language and Interpretation Philosophical Reflections and Empirical Inquiry Noam Chomsky Constructivism Realism and Philosophical Method Richard Boyd Do We Need a Hierarchical Model of Science Diderik Batens Theories of Theories A View from Cognitive Science Richard E Grandy Procedural Syntax for Theory Elements Joseph D Sneed Why Functionalism Didn't Work Hilary Putnam Physicalism Hartry Field This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1992 *Trends in the Historiography of Science* K. Gavroglu, Y. Christianidis, Efthymios Nicolaidis, 2013-04-18 The articles in this volume have been first presented during an international Conference organised by the Greek Society for the History of Science and Technology in June 1990 at Corfu The Society was founded in 1989 and planned to hold a series of meetings to impress upon an audience comprised mainly by Greek students and scholars the point that history of science is an autonomous discipline with its own plurality of approaches developed over the years as a result of long discussions and disputes within the community of historians of science The Conference took place at a time when more and more people came to realise that the future of the Greek Universities and Research Centres depends not only on the progress of the institutional reforms but also very crucially on the establishment of new and modern subject areas Though there have been significant steps towards such a direction in the physical sciences mathematics and engineering the situation in the so called humanities has been at best confusing Political expediencies of the post war years and ideological commitments to a glorious yet very distant past paralysed the development of the humanities and constrained them within a framework which could not allow much more than a philological approach **The Natural Sciences and the Social Sciences** Robert S. Cohen, 2013-06-29 Natural Sciences and the Social Sciences contains a series of explorations of the different ways in which the social sciences have interacted with the natural sciences Usually such interactions are considered to go only one way from the natural to the social sciences But there are several important essays in this volume which show how developments in the social sciences have affected the natural sciences even the hard science of physics Other essays deal with various types of interaction since the Scientific Revolution In his general introductory chapter Cohen sets some general themes concerning analogies and homologies and the use of metaphors drawing specific examples from

the use of concepts of physics by marginalist economists and of developments in the life sciences by organismic sociologists. The remaining chapters which explore the different ways in which the social sciences and the natural sciences have actually interacted are written by leaders in the field of history of science drawn from a wide range of countries and disciplines. The book will be of great interest to all historians of science, philosophers interested in questions of methodology, economists and sociologists and all social scientists concerned with the history of their subject and its foundations.

**The Founders of Evolutionary Genetics**

S. Sarkar, 2012-12-06 genetics. It is simply the appropriation of that term very likely with insufficient knowledge and respect for its past usage. For that the Editor alone is responsible and requests tolerance. He has as far as he can tell no intention or desire to use it for any historiographical purposes other than that just mentioned. Even more important, the decision to consider Muller together with Fisher, Haldane and Wright is also not original. Crow (1984) has already done so, arguing persuasively that Muller was keenly interested in evolution and made substantial contributions to the development of the neo-Darwinian view. Crow's reasons for considering these four figures together and the reasons discussed above are complementary. This book continues a historiographical choice he initiated; others will have to judge whether it is appropriate. The foregoing considerations were intended to show why Fisher, Haldane, Muller and Wright should be considered together in the history of theoretical evolutionary genetics. I. By a welcome stroke of luck from the point of view of the Editor, all four of these figures were born almost together between 1889 and 1892 and almost exactly a century ago. It therefore seemed appropriate to use their birth centenaries to consider their work together. A conference was held at Boston University on March 6, 1990, under the auspices of the Boston Center for the Philosophy and History of Science to discuss their work. This book has emerged mainly from that conference.

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