

# Scientific Explanation and the Causal Structure of the World

*Wesley C. Salmon*

# Scientific Explanation And The Causal Structure Of The World

**Rachel S Tattersall**



## **Scientific Explanation And The Causal Structure Of The World:**

**Scientific Explanation and the Causal Structure of the World** Wesley C. Salmon, 1999      **Scientific Explanation and the Causal Structure of the World** Wesley C. Salmon, 2020-11-10 The philosophical theory of scientific explanation proposed here involves a radically new treatment of causality that accords with the pervasively statistical character of contemporary science Wesley C Salmon describes three fundamental conceptions of scientific explanation the epistemic modal and ontic He argues that the prevailing view a version of the epistemic conception is untenable and that the modal conception is scientifically out dated Significantly revising aspects of his earlier work he defends a causal mechanical theory that is a version of the ontic conception Professor Salmon s theory furnishes a robust argument for scientific realism akin to the argument that convinced twentieth century physical scientists of the existence of atoms and molecules To do justice to such notions as irreducibly statistical laws and statistical explanation he offers a novel account of physical randomness The transition from the reviewed view of scientific explanation that explanations are arguments to the causal mechanical model requires fundamental rethinking of basic explanatory concepts      *Scientific Explanation* Philip Kitcher, Wesley C. Salmon, 1962-05-25 Scientific Explanation was first published in 1962 Minnesota Archive Editions uses digital technology to make long unavailable books once again accessible and are published unaltered from the original University of Minnesota Press editions Is a new consensus emerging in the philosophy of science The nine distinguished contributors to this volume apply that question to the realm of scientific explanation and although their conclusions vary they agree in one respect there definitely was an old consensus Co editor Wesley Salmon s opening essay Four Decades of Scientific Explanation grounds the entire discussion His point of departure is the founding document of the old consensus a 1948 paper by Carl G Hempel and Paul Oppenheim *Studies in the Logic of Explanation* that set forth with remarkable clarity a mode of argument that came to be known as the deductive nomological model This approach holding that explanation does not move beyond the sphere of empirical knowledge remained dominant during the hegemony of logical empiricism from 1950 to 1975 Salmon traces in detail the rise and breakup of the old consensus and examines the degree to which there is if not a new consensus at least a kind of reconciliation on this issue among contemporary philosophers of science and clear agreement that science can indeed tell us why The other contributors in the order of their presentations are Peter Railton Matti Sintonen Paul W Humphreys David Papineau Nancy Cartwright James Woodward Merrilee H Salmon and Philip Kitcher      *Scientific Explanation and the Casual Structure of the World* Wesley Charles Salmon, 1984-01-01      **Causality and Explanation** Wesley C. Salmon, 1998-01-22 For over two decades Wesley Salmon has helped to shape the course of debate in philosophy of science He is a major contributor to the philosophical discussion of problems associated with causality and the author of two influential books on scientific explanation This long awaited volume collects twenty six of Salmon s essays including seven that have never before been published and others difficult to find Part I comprises five introductory essays that presuppose

no formal training in philosophy of science and form a background for subsequent essays Parts II and III contain Salmon's seminal work on scientific explanation and causality Part IV offers survey articles that feature advanced material but remain accessible to those outside philosophy of science Essays in Part V address specific issues in particular scientific disciplines namely archaeology and anthropology astrophysics and cosmology and physics Clear compelling and essential this volume offers a superb introduction to philosophy of science for nonspecialists and belongs on the bookshelf of all who carry out work in this exciting field Wesley Salmon is renowned for his seminal contributions to the philosophy of science He has powerfully and permanently shaped discussion of such issues as lawlike and probabilistic explanation and the interrelation of explanatory notions to causal notions This unique volume brings together twenty six of his essays on subjects related to causality and explanation written over the period 1971 1995 Six of the essays have never been published before and many others have only appeared in obscure venues The volume includes a section of accessible introductory pieces as well as more advanced and technical pieces and will make essential work in the philosophy of science readily available to both scholars and students

*Four Decades of Scientific Explanation* Wesley C. Salmon, 2006-06-15 As Aristotle stated scientific explanation is based on deductive argument yet Wesley C Salmon points out not all deductive arguments are qualified explanations The validity of the explanation must itself be examined *Four Decades of Scientific Explanation* provides a comprehensive account of the developments in scientific explanation that transpired in the last four decades of the twentieth century It continues to stand as the most comprehensive treatment of the writings on the subject during these years Building on the historic 1948 essay by Carl G Hempel and Paul Oppenheim *Studies in the Logic of Explanation* which introduced the deductive nomological D N model on which most work on scientific explanation was based for the following four decades Salmon goes beyond this model's inherent basis of describing empirical knowledge to tell us not only what but also why Salmon examines the predominant models in chronological order and describes their development refinement and criticism or rejection *Four Decades of Scientific Explanation* underscores the need for a consensus of approach and ongoing evaluations of methodology in scientific explanation with the goal of providing a better understanding of natural phenomena

**Scientific Explanation** Erik Weber, Jeroen Van Bouwel, Leen De Vreese, 2014-07-08 When scientists investigate why things happen they aim at giving an explanation But what does a scientific explanation look like In the first chapter *Theories of Scientific Explanation* of this book the milestones in the debate on how to characterize scientific explanations are exposed The second chapter *How to Study Scientific Explanation* scrutinizes the working method of three important philosophers of explanation Carl Hempel Philip Kitcher and Wesley Salmon and shows what went wrong Next it is the responsibility of current philosophers of explanation to go on where Hempel Kitcher and Salmon failed However we should go on in a clever way We call this clever way the pragmatic approach to scientific explanation and clarify briefly what this approach consists in The third chapter *A Toolbox for Describing and Evaluating Explanatory Practices* elaborates the pragmatic approach by

presenting a toolbox for analysing scientific explanation In the last chapter Examples of Descriptions and Evaluations of Explanatory Practices the approach is illustrated with real life examples of scientists aiming at explaining This book can be used as a textbook for intermediate philosophy of science courses and is also valuable as suggested reading for introductory courses in philosophy of science The way the book is set up makes it an excellent study and research guide for advanced MA and PhD students that work on the topic of scientific explanation Finally it is a handy source and reference book for senior researchers in the field of scientific explanations and more generally for all philosophers of science

*Scientific Explanation, Causality, and Agency* Majid D. Beni, 2024-07-12 This book draws on advances in computational neuroscience and theoretical biology to provide a clear and accessible agentic account of the nature of causality and scientific explanations Instead of attempting to establish the elements of scientific explanation such as causality in a reality unadulterated by a human perspective this book relies on scientific facts about cognition to describe the structure of agency from a distinctly human perspective The book draws on the Free Energy Principle to reinforce the agency theory of causality and extend it to an account of explanation as well This principle not only provides a theoretical account of how self organising systems engage with the causal structure of the environment but it also offers a viable notion of agency and is compatible with the projectivist aspects of the agency theory Scientific Explanation Causality and Agency will appeal to researchers and advanced students working in philosophy of science philosophy of cognitive science epistemology computational neuroscience and theoretical biology

Philosophy of Psychology: Causality and Psychological Subject Wenceslao J. Gonzalez, 2018-06-11 Contemporary philosophy of science analyzes psychology as a science with special features because this discipline includes some specific philosophical problems descriptive and normative structural and dynamic Some of these are particularly relevant both theoretically causal explanation and practically the configuration of the psychological subject and its relations with psychiatry Two central aspects in this book are the role of causality especially conceived as intervention or manipulation and the characterization of the psychological subject This requires a clarification of scientific explanations in terms of causality in psychology because characterizations of causality are quite different in epistemological and ontological terms One of the most influential views is James Woodward's approach to causality as intervention which entails an analysis of its characteristics new elements and limits This means taking into account the structural and dynamic aspects included in causal cognition and psychological explanations Psychology seen as special science also requires us to consider the scientific status of psychology and the psychological subject which leads to limits of naturalism in psychology

*Reality and Rationality* the late Wesley C. Salmon, 2005-06-09 This volume of articles most published some new is a follow up to the late Wesley C Salmon's widely read collection Causality And Explanation OUP 1998 It contains both published and unpublished articles and focuses on two related areas of inquiry First is science a rational enterprise Secondly does science yield objective information about our world even the aspects that we cannot observe

directly Salmon's own take is that objective knowledge of the world is possible and his work in these articles centers around proving that this can be so. Salmon's influential standing in the field ensures that this volume will be of interest to both undergraduates and professional philosophers primarily in the philosophy of science.

**Essays in the Metaphysics of Mind** Jaegwon Kim, 2010-10-21 The first begins with a consideration of Davidson's argument for the claim that there are no strict laws about the mental; the second builds on J. J. C. Smart's observations on biology and its relation to physics; and the third is based on my earlier work on multiple realization.

*Causality for Artificial Intelligence* Jordi Vallverdú, 2024-06-28 How can we teach machine learning to identify causal patterns in data? This book explores the very notion of causality, identifying from a naturalistic and evolutionary perspective how living systems deal with causal relationships. At the same time, using this knowledge to identify the best ways to apply such biological models in machine learning scenarios. One of the more fundamental challenges for AI experts is to design machines that can understand the world, identifying the basic rules that govern reality. Statistics are powerful and fundamental for this process, but they are only one of the necessary tools. Counterfactual thinking is the other part of the necessary process that will help machines to become intelligent. This book explains the paths that can lead to algorithmic causality. It is essential reading for those who are not afraid of thinking at the interface of various academic disciplines or fields: AI, machine learning, philosophy, neuroscience, anthropology, psychology, computer sciences, and who are interested in the analysis of causal thinking and the ways in which cognitive systems, natural or artificial, can act in order to understand their environment. Professor Vallverdú is currently working on biomimetic cognitive architectures and multicognitive systems. His research has explored two main areas: epistemology and cognition. Since his early Ph.D. research on epistemic controversies, he has analyzed several aspects of computational epistemology. His latest research has focused on the causal challenges of machine learning techniques, particularly deep learning. One of his most promising advances is statistics meets causal graph reasoning via Directed Acyclic Graphs, which still has several conceptual paths that need to be explored and identified. Counterfactual reasoning is a fundamental part of these open debates, which are under the analysis of Prof. Vallverdú. His current research is supported as part of the following projects: GEHUCT and ICREA Acadèmia.

**A Historical Introduction to the Philosophy of Science** John Losee, 2001-03-01 John Losee provides a balanced and engaging survey of the development of views about scientific method. Ideal for those coming to the subject for the first time, this fully updated new edition incorporates discussion on contemporary debates, including philosophy of biology, normative naturalism, theory appraisal, experimental practice, and scientific realism. Concise profiles of the major philosophers discussed within the text are provided, including Aristotle, Galileo, Newton, Whewell, Hempel, and Kuhn.

*Probability and Causality* J.H. Fetzer, 2012-12-06 The contributions to this special collection concern issues and problems discussed in or related to the work of Wesley C. Salmon. Salmon has long been noted for his important work in the philosophy of science, which has included research on the interpretation of probability, the nature of explanation, the character of reasoning, the

justification of induction the structure of space time and the paradoxes of Zeno to mention only some of the most prominent During a time of increasing preoccupation with historical and sociological approaches to understanding science which characterize scientific developments as though they could be adequately analysed from the perspective of political movements even mistaking the phenomena of conversion for the rational appraisal of scientific theories Salmon has remained steadfastly devoted to isolating and justifying those normative standards distinguishing science from non science especially through the vindication of general principles of scientific procedure and the validation of specific examples of scientific theories without which science itself cannot be even remotely adequately understood In this respect Salmon exemplifies and strengthens a splendid tradition whose most remarkable representatives include Hans Reichenbach Rudolf Carnap and Carl G Hempel all of whom exerted a profound influence upon his own development

**Applied Epistemology** Gordon Barnes, 2025-09-22 Human knowledge is fundamentally social Most of the processes by which we acquire and evaluate information in everyday life giving and receiving testimony identifying experts and relying on them involve whole communities of people The successful use of knowledge to solve problems is thus most often a collective achievement Likewise the failure to leverage knowledge is seldom the fault of a single individual Beginning each chapter with a real life example Applied Epistemology demonstrates how various concepts of knowledge relate to problems arising in practical contexts From trusting testimony and recognizing experts to acknowledging bias and resisting propaganda Applied Epistemology teaches us how to use theories of knowledge to navigate our complex world

*The Territories of Human Reason* Alister E. McGrath, 2019 The Territories of Human Reason is the first major study to explore the emergence of multiple situated rationalities It focuses on the relation of the natural sciences and Christian theology but its approach can easily be extended to other disciplines

*Science Rules* Peter Achinstein, 2004-09-24 Included is a famous nineteenth century debate about scientific reasoning between the hypothetico deductivist William Whewell and the inductivist John Stuart Mill and an account of the realism antirealism dispute about unobservables in science with a consideration of Perrin's argument for the existence of molecules in the early twentieth century

Explanation in the Special Sciences Marie I. Kaiser, Oliver R. Scholz, Daniel Plenge, Andreas Hüttemann, 2013-11-29 Biology and history are often viewed as closely related disciplines with biology informed by history especially in its task of charting our evolutionary past Maximizing the opportunities for cross fertilization in these two fields requires an accurate reckoning of their commonalities and differences precisely what this volume sets out to achieve Specially commissioned essays by a team of recognized international researchers cover the full panoply of topics in these fields and include notable contributions on the correlativity of evolutionary and historical explanations applying to history the latest causal mechanical approach in the philosophy of biology and the question of generalized laws that might pertain across the two subjects The collection opens with a vital interrogation of general issues on explanation that apart from potentially fruitful areas of interaction could the etiology of the

causal mechanical perspective in biology account for the historical trajectory of the Roman Empire this volume also seeks to chart relative certainties distinguishing explanations in biology and history It also assesses techniques such as the use of probabilities in biological reconstruction deployed to overcome the inevitable gaps in physical evidence on early evolution Methodologies such as causal graphs and semantic explanation receive in depth analysis Contributions from a host of prominent and widely read philosophers ensure that this new volume has the stature of a major addition to the literature

Arguing about Science Alexander Bird, James Ladyman, 2013 Arguing About Science is an outstanding engaging introduction to the essential topics in philosophy of science edited by two leading experts in the field This exciting and innovative anthology contains a selection of classic and contemporary readings that examine a broad range of issues from classic problems such as scientific reasoning causation and scientific realism to more recent topics such as science and race forensic science and the scientific status of medicine The editors bring together some of the most influential contributions of famous philosophers in the field including John Stuart Mill and Karl Popper as well as more recent extracts from philosophers and scientists such as Ian Hacking Stephen Jay Gould Bas van Fraassen Nancy Cartwright and John Worrall The anthology is organised into nine clear sections science non science and pseudo science race gender and science scientific reasoning scientific explanation laws and causation science and medicine probability and forensic science risk uncertainty and science policy scientific realism and anti realism The articles chosen are clear interesting and free from unnecessary jargon The editors provide lucid introductions to each section in which they provide an overview of the debate as well as suggestions for further reading

*Understanding: Oxford Bibliographies Online Research Guide* Oxford University Press, 2010-06-01 This ebook is a selective guide designed to help scholars and students of social work find reliable sources of information by directing them to the best available scholarly materials in whatever form or format they appear from books chapters and journal articles to online archives electronic data sets and blogs Written by a leading international authority on the subject the ebook provides bibliographic information supported by direct recommendations about which sources to consult and editorial commentary to make it clear how the cited sources are interrelated related This ebook is a static version of an article from Oxford Bibliographies Online Philosophy a dynamic continuously updated online resource designed to provide authoritative guidance through scholarship and other materials relevant to the study Philosophy Oxford Bibliographies Online covers most subject disciplines within the social science and humanities for more information visit [www.oxfordbibliographies.com](http://www.oxfordbibliographies.com)



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