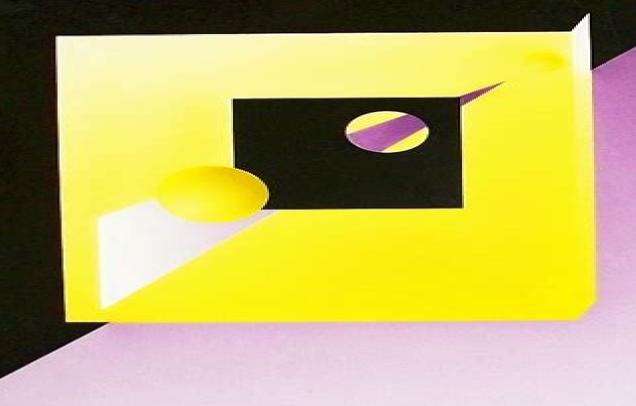
# REALISM RESCUED

How Scientific Progress Is Possible



Jerrold L. Aronson

Rom Harré

Eileen Cornell Way

# **Realism Rescued How Scientific Progress Is Possible**

**Mary E. Farrell** 

# **Realism Rescued How Scientific Progress Is Possible:**

Realism Rescued Jerrold L. Aronson, Rom Harré, Eileen Cornell Way, 1995 Does science give us a progressively more accurate and objective account of the world This book by three leading philosophers of science presents a new defense of scientific realism against skeptical and positivist attacks While positivists view scientific theories as devices for predicting observable phenomena realists maintain that theories describe hidden processes which account for observable phenomena This problem raises the question What are scientific theories about Do they refer to an unobservable yet real realm of physical processes It seems undeniable that the scientific endeavor has in some sense made progress But is the increasing practical success of the physical sciences good grounds for believing that their theories and techniques lead us nearer to the truth According to Aronson Harre and Way past failures to answer these questions have been due in large part to the assumption that knowledge is expressed in propositions and organized by the canons of logic On the assumption that science must meet the world in a correspondence between statements and states of affairs realism turns out to be difficult to defend Realism Rescued offers a new direction relying on the importance of models in scientific work Theories are not to be thought of as sets of propositions though they can be expressed propositionally Rather they are models chunks of orderings of natural kinds For the first time the indispensability of models is turned into a powerful argument for realism an argument that confronts the skeptic on his own ground By drawing on a new technique of knowledge representation developed in Artificial Intelligence the dynamic type hierarchy the authorsgive a convincing account of the central role of models Such concepts as verisimilitude natural kind natural necessity and natural law can then be presented far more clearly than ever before The Routledge Handbook of Scientific Realism Juha Saatsi, 2017-11-22 Scientific realism is a central long standing and hotly debated topic in philosophy of science Debates about scientific realism concern the very nature and extent of scientific knowledge and progress Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses Various realist theses are under sceptical fire from scientific antirealists e g empiricists and instrumentalists The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond The Routledge Handbook of Scientific Realism is an outstanding reference source the first collection of its kind to the key issues positions and arguments in this important topic Its thirty four chapters written by a team of international experts are divided into five parts Historical development of the realist stance Classic debate core issues and positions Perspectives on contemporary debates The realism debate in disciplinary context Broader reflections In these sections the core issues and debates presented analysed and set into broader historical and disciplinary contexts The central issues covered include motivations and arguments for realism challenges to realism from underdetermination and history of science different variants of realism the connection of realism to relativism and perspectivism and the relationship between realism metaphysics and epistemology The Routledge

Handbook of Scientific Realism is essential reading for students and researchers in philosophy of science It will also be very useful for anyone interested in the nature and extent of scientific knowledge Critical Scientific Realism Ilkka Niiniluoto, 1999-12-09 Ilkka Niiniluoto comes to the rescue of scientific realism showing that reports of its death have been greatly exaggerated Philosophical realism holds that the aim of a particular discourse is to make true statements about its subject matter Niiniluoto surveys the different varieties of realism in ontology semantics epistemology theory construction and methodology He then sets out his own original version and defends it against competing theories in the philosophy of science Niiniluoto's critical scientific realism is founded upon the notion of truth as correspondence between language and reality and characterizes scientific progress in terms of increasing truthlikeness This makes it possible not only to take seriously but also to make precise the troublesome idea that scientific theories typically are false but nevertheless close to Quantum Theory and the Flight from Realism Christopher Norris, 2002-11-01 This book is a critical introduction the truth to the long standing debate concerning the conceptual foundations of quantum mechanics and the problems it has posed for physicists and philosophers from Einstein to the present Quantum theory has been a major infulence on postmodernism and presents significant problems for realists Keeping his own realist position in check Christopher Norris subjects a wide range of key opponents and supporters of realism to a high and equal level of scrutiny With a characteristic combination of rigour and intellectual generosity he draws out the merits and weaknesses from opposing arguments In a sequence of closely argued chapters Norris examines the premises of orthodox quantum theory as developed most influentially by Bohr and Heisenberg and its impact on varous philosophical developments These include the ideas developed by W V Quine Thomas Kuhn Michael Dummett Bas van Fraassen and Hilary Puttnam In each case Norris argues these thinkers have been influenced by the orthodox construal of quantum mechanics as requiring drastic revision of principles which had hitherto defined the very nature of scientific method causal explanati and rational enquiry Putting the case for a realist approach which adheres to well tried scientific principles of causal reasoning and inference to the best explanation Christopher Norris clarifies these debates to a non specialist readership and scholars of philosophy science studies and the philosophy of science alike Quantum Theory and the Flight From Realism suggests that philosophical reflection can contribute to a better understanding of these crucial current issues Realism Rescued Jerrold L. Aronson, Rom Harré, Eileen Cornell Way, 1994

Philosophy of Language and the Challenge to Scientific Realism Christopher Norris,2004-06-02 In this book Christopher Norris develops the case for scientific realism by tackling various adversary arguments from a range of anti realist positions Through a close critical reading he shows how they fail to make adequate sense on any rational consistent and scientifically informed survey of the evidence Along the way he incorporates a number of detailed case studies from the history and philosophy of science Norris devotes much of his discussion to some of the most prominent and widely influential source texts of anti realism Also included are the sophisticated versions of verificationism developed albeit in very different

ways by thinkers such as Michael Dummett and Bas van Fraassen Central to Norris s argument is a prolonged engagement with the once highly influential but nowadays neglected work of Norwood Russell Hanson This book will be welcomed especially by readers who possess some knowledge of the background debate and who wish to deepen and extend their understanding of these issues beyond an introductory level New Philosophical Perspectives on Scientific Progress Yafeng Shan, 2022-11-01 This collection of original essays offers a comprehensive examination of scientific progress which has been a central topic in recent debates in philosophy of science Traditionally debates over scientific progress have focused on different methodological approaches notably the epistemic and semantic approaches The chapters in Part I of the book examine these two traditional approaches as well as the newly revived functional and newly developed noetic approaches Part II features in depth case studies of scientific progress from the history of science The chapters cover individual sciences including physics chemistry evolutionary biology seismology psychology sociology economics and medicine Finally Part III of the book explores important issues from contemporary philosophy of science These chapters address the implications of scientific progress for the scientific realism anti realism debate incommensurability values in science idealisation scientific speculation interdisciplinarity and scientific perspectivalism New Philosophical Perspectives on Scientific Progress will be of interest to researchers and advanced students working on the history and philosophy of science **Deconstruction and** the 'Unfinished Project of Modernity' Christopher Norris, 2020-11-25 Through a close engagement with some key thinkers Norris argues that deconstruction is part of the unfinished project of modernity a project whose interest and values it upholds by continuing to question them in a spirit of enlightened self critical inquiry **Nature and Sociology** Tim Newton, 2007-08-07 This book engages with and contests the new sociology of nature It moves beyond existing debates by presenting new social theory and working across current fields of interest addressing the debate on new genetics and genomics taking human biology seriously and the issues of interdisciplinarity that are likely to arise in longer term attempts to work across the social and natural world Nature and Sociology will be of great interest to students of a variety of disciplines including sociology and social science human geography social and biological anthropology and the natural sciences Sociology as a Human Science Isaac Ariail Reed, 2023-04-25 Sociology as a Human Science is a set of foundational wide ranging and updated essays from Isaac Ariail Reed Gathered together for the first time with a new introduction they articulate a distinct perspective on concept and method in social science Reed writes about realism and positivism postmodernism and empiricism mechanisms and causality and power and history developing thereby an understanding of the key debates out of which 21st century sociology has developed Carefully considering all manner of arguments in metatheory and epistemology and moving towards a program of interpretive explanation focused on culture and power Reed places sociology at the center of debates about knowledge production across the humanities and social sciences His reconstructive approach positioned after the posts poststructuralism postmodernism and postcolonialism

provides a way for interpretive sociology to provide analytically sound theoretically extensive and empirically rich understandings of social life Digital Library Use Ann Peterson-Kemp, Nancy A. Van House, Barbara P. Buttenfield, 2003-10-10 Viewing digital libraries as sociotechnical systems networks of people and technology interacting with society The contributors to this volume view digital libraries DLs from a social as well as technological perspective They see DLs as sociotechnical systems networks of technology information artifacts and people and practices interacting with the larger world of work and society As Bruce Schatz observes in his foreword for a digital library to be useful the users the documents and the information system must be in harmony The contributors begin by asking how we evaluate DLs how we can understand them in order to build better DLs but they move beyond these basic concerns to explore how DLs make a difference in people s lives and their social worlds and what studying DLs might tell us about information knowledge and social and cognitive processes The chapters using both empirical and analytical methods examine the social impact of DLs and also the web of social and material relations in which DLs are embedded these far ranging social worlds include such disparate groups as community activists environmental researchers middle school children and computer system designers Topics Documents and society the real boundaries of a library without walls the ecologies of digital libraries usability and evaluation information and institutional change transparency as a product of the convergence of social practices and information artifacts and collaborative knowledge construction in digital libraries **Evaluating Progress in** International Relations Annette Freyberg-Inan, Ewan Harrison, Patrick James, 2016-10-04 This edited volume offers a systematic evaluation of how knowledge is produced by scholarly research into International Relations The contributors explore three key questions To what extent is scientific progress and accumulation of knowledge possible What are the different accounts of how this process takes place And what are the dominant critiques of these understandings It is the first publication to survey the full range of perspectives available for evaluating scientific progress as well as dominant critiques of scientism In its second part the volume applies this range of perspectives to the research program on the democratic peace It shows what we gain by accommodating and enabling dialogue among the full range of epistemological approaches The contributors elaborate and defend the epistemological position of sociable pluralism as one that seeks to build bridges between soft positivism critical theory and critical realism The underlying idea is that if the differences between the various approaches used by different communities of researchers can be understood more clearly this will facilitate meaningful cross cutting communication dialogue and debate and thereby enable us to address real world problems more effectively This timely and original work will be of great interest to advanced level students and scholars dealing with philosophy of science and methodological questions in International Relations **Philosophical Frontiers** Mary E. Farrell,2009 This book contains essays and emerging thoughts that grapple with fundamental questions regarding ourselves our world and the environments in which we find ourselves Included are considerations of the issues of freedom and control world philosophy

ethics morality and judgement and investigations of diverse areas from ontology to sexual attraction P 4 of cover

Scientific Models in Philosophy of Science Daniela M. Bailer-Jones, 2009-09-13 Scientists have used models for hundreds of years as a means of describing phenomena and as a basis for further analogy In Scientific Models in Philosophy of Science Daniela Bailer Jones assembles an original and comprehensive philosophical analysis of how models have been used and interpreted in both historical and contemporary contexts Bailer Jones delineates the many forms models can take ranging from equations to animals from physical objects to theoretical constructs and how they are put to use She examines early mechanical models employed by nineteenth century physicists such as Kelvin and Maxwell describes their roots in the mathematical principles of Newton and others and compares them to contemporary mechanistic approaches Bailer Jones then views the use of analogy in the late nineteenth century as a means of understanding models and to link different branches of science She reveals how analogies can also be models themselves or can help to create them The first half of the twentieth century saw little mention of models in the literature of logical empiricism Focusing primarily on theory logical empiricists believed that models were of temporary importance flawed and awaiting correction The later contesting of logical empiricism particularly the hypothetico deductive account of theories by philosophers such as Mary Hesse sparked a renewed interest in the importance of models during the 1950s that continues to this day Bailer Jones analyzes subsequent propositions of models as metaphors Kuhn's concept of a paradigm the Semantic View of theories and the case study approaches of Cartwright and Morrison among others She then engages current debates on topics such as phenomena versus data the distinctions between models and theories the concepts of representation and realism and the discerning of falsities in models Metamodernism Jason Ananda Josephson Storm, 2021-06-07 Not only an astute diagnosis of the confusions and contradictions of contemporary thought it also offers compelling alternatives Rita Felski author of Hooked Art and Attachment For decades scholars have been calling into question the universality of disciplinary objects and categories The coherence of defined autonomous categories such as religion science and art has collapsed under the weight of postmodern critiques calling into question the possibility of progress and even the value of knowledge Jason nanda Josephson Storm aims to radicalize and move beyond these deconstructive projects to offer a path forward for the humanities and social sciences using a new model for theory he calls metamodernism Metamodernism works through the postmodern critiques and uncovers the mechanisms that produce and maintain concepts and social categories In so doing Storm provides a new radical account of society s ever changing nature what he calls a Process Social Ontology and its materialization in temporary zones of stability or social kinds Storm then formulates a fresh approach to philosophy of language by looking beyond the typical theorizing that focuses solely on human language production showing us instead how our own sign making is actually on a continuum with animal and plant communication Storm also considers fundamental issues of the relationship between knowledge and value promoting a turn toward humble emancipatory knowledge that recognizes the existence of multiple

modes of the real Metamodernism is a revolutionary manifesto for research in the human sciences that offers a new way through postmodern skepticism to envision a more inclusive future of theory in which new forms of both progress and knowledge can be realized **Gender and Political Psychology** Zoe Oxley, 2017-10-02 This book showcases new work done by gender politics scholars and political psychologists covering a variety of political psychology topics These include stereotyping and prejudice intergroup conflict social identity attitude formation group affinity group decision making anxiety contextual effects on individual behaviour and the evolutionary roots of political behaviour Political psychological insights are applied to address topics of longstanding concern within the field of gender and politics Among the citizenry gender differences in political ideology responses to partisan conflict Hispanic identity formation and symbolic racism are explored Other chapters pose the following questions relating to female candidates What have been the effects of state parties gender inclusive policies Who is most likely to gender stereotype candidates Are general attitudes toward women in political office related to vote choice in specific contests What are the implications of politicized motherhood Finally a set of essays engage a variety of themes related to gender decision making rules and authority in small deliberative bodies This book was originally published as a special issue of Politics Groups and Identities The Routledge Handbook of Linguistic Reference Stephen Biggs, Heimir Geirsson, 2020-12-23 This Handbook offers students and more advanced readers a valuable resource for understanding linguistic reference the relation between an expression word phrase sentence and what that expression is about The volume s forty one original chapters written by many of today s leading philosophers of language are organized into ten parts Early Descriptive Theories Causal Theories of Reference Causal Theories and Cognitive Significance Alternate Theories Two Dimensional Semantics Natural Kind Terms and Rigidity The Empty Case Singular De Re Thoughts Indexicals Epistemology of Reference Contributions consider what kinds of expressions actually refer names general terms indexicals empty terms sentences what referring expressions refer to what makes an expression refer to whatever it does connections between meaning and reference and how we know facts about reference Many contributions also develop connections between linguistic reference and issues in metaphysics epistemology philosophy of mind and philosophy of science

Plato's Philosophy of Science Andrew Gregory, 2015-03-02 In this illuminating book Andrew Gregory takes an original approach to Plato's philosophy of science by reassessing Plato's views on how we might investigate and explain the natural world He demonstrates that many of the common charges against Plato disinterest ignorance dismissal of observation are unfounded and shows instead that Plato had a series of important and cogent criticisms to make of the early atomists and other physiologoi Plato's views on science and on astronomy and cosmology in particular are shown to have developed in interesting ways. Thus the book argues Plato can best be seen as a philosopher struggling with the foundations of scientific realism and as someone moreover who has interesting epistemological cosmological and nomological reasons for his approach Plato's Philosophy of Science is important reading for all those with an interest in Ancient Philosophy and the

History of Science Beyond Mimesis and Convention Roman Frigg, Matthew Hunter, 2010-04-28 Representation is a concern crucial to the sciences and the arts alike Scientists devote substantial time to devising and exploring representations of all kinds From photographs and computer generated images to diagrams charts and graphs from scale models to abstract theories representations are ubiquitous in and central to science Likewise after spending much of the twentieth century in proverbial exile as abstraction and Formalist aesthetics reigned supreme representation has returned with a vengeance to contemporary visual art Representational photography video and ever evolving forms of new media now figure prominently in the globalized art world while this return of the real has re energized problems of representation in the traditional media of painting and sculpture If it ever really left representation in the arts is certainly back Central as they are to science and art these representational concerns have been perceived as different in kind and as objects of separate intellectual traditions Scientific modeling and theorizing have been topics of heated debate in twentieth century philosophy of science in the analytic tradition while representation of the real and ideal has never moved far from the core humanist concerns of historians of Western art Yet both of these traditions have recently arrived at a similar impasse Thinking about representation has polarized into oppositions between mimesis and convention Advocates of mimesis understand some notion of mimicry or similarity resemblance or imitation as the core of representation something represents something else if and only if the former mimics the latter in some relevant way Such mimetic views stand in stark contrast to conventionalist accounts of representation which see voluntary and arbitrary stipulation as the core of representation Occasional exceptions only serve to prove the rule that mimesis and convention govern current thinking about representation in both analytic philosophy of science and studies of visual art This conjunction can hardly be dismissed as a matter of mere coincidence In fact researchers in philosophy of science and the history of art have increasingly found themselves trespassing into the domain of the other community pilfering ideas and approaches to representation Cognizant of the limitations of the accounts of representation available within the field philosophers of science have begun to look outward toward the rich traditions of thinking about representation in the visual and literary arts Simultaneously scholars in art history and affiliated fields like visual studies have come to see images generated in scientific contexts as not merely interesting illustrations derived from high art but as sophisticated visualization techniques that dynamically challenge our received conceptions of representation and aesthetics Beyond Mimesis and Convention Representation in Art and Science is motivated by the conviction that we students of the sciences and arts are best served by confronting our mutual impasse and by recognizing the shared concerns that have necessitated our covert acts of kleptomania Drawing leading contributors from the philosophy of science the philosophy of literature art history and visual studies our volume takes its brief from our title That is these essays aim to put the evidence of science and of art to work in thinking about representation by offering third or fourth or fifth ways beyond mimesis and convention In so doing our contributors explore a range of topics fictionalism exemplification neuroaesthetics

approximate truth that build upon and depart from ongoing conversations in philosophy of science and studies of visual art in ways that will be of interest to both interpretive communities To put these contributions into context the remainder of this introduction aims to survey how our communities have discretely arrived at a place wherein the perhaps surprising collaboration between philosophy of science and art history has become not only salubrious but a matter of necessity  $\boldsymbol{A}$ Realist Theory of Art History Ian Verstegen, 2013-01-03 As the theoretical alignments within academia shift this book introduces a surprising variety of realism to abolish the old positivist theory dichotomy that has haunted Art History Demanding frankly the referential detachment of the objects under study the book proposes a stratified multi causal account of art history that addresses postmodern concerns while saving it from its errors of self refutation Building from the very basic distinction between intransitive being and transitive knowing objects can be affirmed as real while our knowledge of them is held to be fallible Several focused chapters address basic problems while introducing philosophical reflection into art history These include basic ontological distinctions between society and culture general and special history the discontinuity of cultural objects the importance of definition for special history scales facets and fiat objects as forms of historical structure the nature of evidence and proof historical truth and controversies Stressing Critical Realism as the stratified multi causal approach needed for productive research today in the academy this book creates the subject of the ontology of art history and sets aside a theoretical space for metaphysical reflection thus clarifying the usually muddy distinction between theory methodology and historiography in art history

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