

# SCIENTIFIC GENIUS

*A History of Science*

by *JOHN G. GAGLIARDI*

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# Scientific Genius A Psychology Of Science

**Helmuth Nyborg**



## **Scientific Genius A Psychology Of Science:**

Scientific Genius Dean Keith Simonton, 1988-06-24 Simonton examines the idea of the genius through his own theory called chance configuration theory      **Scientific Genius: a Psychology of Science** Dean Keith Simonton, 1988

Creativity in Science Dean Keith Simonton, 2004-05-03 Psychologists sociologists philosophers historians and even scientists themselves have often tried to decipher the basis for creativity in science Some have attributed creativity to a special logic the so called scientific method whereas others have pointed to the inspirations of genius or to the inevitable workings of the zeitgeist Finally some have viewed scientific breakthroughs as the product of chance as witnessed in the numerous episodes of serendipity Too often these four alternative interpretations are seen as mutually exclusive Yet the central thesis of this book is that the chance logic genius and zeitgeist perspectives can be integrated into a single coherent theory of creativity in science But for this integration to succeed chance must be elevated to the status of primary cause Logic genius and the zeitgeist still have significant roles to play but mainly operate insofar as they enhance or constrain the operation of a chance combinatorial process      The Scientific Study of General Intelligence Helmuth Nyborg, 2003-07-11

This book celebrates two triumphs in modern psychology the successful development and application of a solid measure of general intelligence and the personal courage and skills of the man who made this possible Arthur R Jensen from Berkeley University The volume traces the history of intelligence from the early 19th century approaches to the most recent analyses of the hierarchical structure of cognitive abilities and documents the transition from a hopelessly confused concept of intelligence to the development of an objective measure of psychometric g The contributions illustrate the impressive power g has with respect to predicting educational achievement getting an attractive job or social stratification The book is divided into six parts as follows Part I presents the most recent higher stream analysis of cognitive abilities Part II deals with biological aspects of g such as research on brain imaging glucose uptake working memory reaction time inspection time and other biological correlates and concludes with the latest findings in g related molecular genetics Part III addresses demographic aspects of g such as geographic race and sex differences and introduces differential psychological aspects as well Part IV concentrates on the g nexus and relates such highly diverse topics as sociology genius retardation training education jobs and crime to g Part V contains chapters critical of research on g and its genetic relationship and also presents a rejoinder Part VI looks at one of the greatest contemporary psychologists Professor Emeritus Arthur R Jensen as teacher and mentor      The Oxford Handbook of Thinking and Reasoning Keith J. Holyoak, Robert G. Morrison, 2013-05-23 The Oxford

Handbook of Thinking and Reasoning brings together the contributions of many of the leading researchers in thinking and reasoning to create the most comprehensive overview of research on thinking and reasoning that has ever been available

*The Psychology of Science and the Origins of the Scientific Mind* Gregory J. Feist, 2008-10-01 In this book Gregory Feist reviews and consolidates the scattered literatures on the psychology of science then calls for the establishment of the field as

a unique discipline He offers the most comprehensive perspective yet on how science came to be possible in our species and on the important role of psychological forces in an individual's development of scientific interest talent and creativity Without a psychological perspective Feist argues we cannot fully understand the development of scientific thinking or scientific genius The author explores the major subdisciplines within psychology as well as allied areas including biological neuroscience and developmental cognitive personality and social psychology to show how each sheds light on how scientific thinking interest and talent arise He assesses which elements of scientific thinking have their origin in evolved mental mechanisms and considers how humans may have developed the highly sophisticated scientific fields we know today In his fascinating and authoritative book Feist deals thoughtfully with the mysteries of the human mind and convincingly argues that the creation of the psychology of science as a distinct discipline is essential to deeper understanding of human thought processes

The Cognitive Science of Science Paul Thagard, 2012-04-06 A cognitive science perspective on scientific development drawing on philosophy psychology neuroscience and computational modeling Many disciplines including philosophy history and sociology have attempted to make sense of how science works In this book Paul Thagard examines scientific development from the interdisciplinary perspective of cognitive science Cognitive science combines insights from researchers in many fields philosophers analyze historical cases psychologists carry out behavioral experiments neuroscientists perform brain scans and computer modelers write programs that simulate thought processes Thagard develops cognitive perspectives on the nature of explanation mental models theory choice and resistance to scientific change considering disbelief in climate change as a case study He presents a series of studies that describe the psychological and neural processes that have led to breakthroughs in science medicine and technology He shows how discoveries of new theories and explanations lead to conceptual change with examples from biology psychology and medicine Finally he shows how the cognitive science of science can integrate descriptive and normative concerns and he considers the neural underpinnings of certain scientific concepts

**Handbook of Organizational Creativity** Michael D. Mumford, 2011-08-17 Michael D Mumford The Nature of Human Creativity Robert J. Sternberg, James C. Kaufman, 2018-04-19 Brings together the research programs and findings of the twenty four psychological scientists most cited in major textbooks on creativity

*The Cambridge Handbook of Creativity across Domains* James C. Kaufman, Vlad P. Glăveanu, John Baer, 2017-09-28 Creativity is of rising interest to scholars and laypeople alike Creativity in the arts however is very different from creativity in science business sports cooking or teaching This book brings together top experts in the field from around the world to discuss creativity across many different domains Each chapter includes clear definitions intriguing research potential measures and suggestions for development or future directions After a broad discussion of creativity across different domains subsequent chapters look deeper into those individual domains traditional arts sciences business newer domains and everyday life to explore how creativity varies when expressed in different ways Ultimately the book offers a future

looking perspective integrating the different variations of creativity across domains      The Life Cycle of Psychological Ideas Thomas C. Dalton, Rand B. Evans, 2006-01-03 This book focuses on what other volumes have only touched on that is the factors that contribute to the rise of certain persons and ideas in the field of psychology Bringing together noted experts in the field it describes the process of intellectual reconstructions that determines how we view historical events and why some ideas die only to be reborn again as well as why new ideas can quickly topple traditional views      Pseudoscience Allison B. Kaufman, James C. Kaufman, 2019-03-12 Case studies personal accounts and analysis show how to recognize and combat pseudoscience in a post truth world In a post truth fake news world we are particularly susceptible to the claims of pseudoscience When emotions and opinions are more widely disseminated than scientific findings and self proclaimed experts get their expertise from Google how can the average person distinguish real science from fake This book examines pseudoscience from a variety of perspectives through case studies analysis and personal accounts that show how to recognize pseudoscience why it is so widely accepted and how to advocate for real science Contributors examine the basics of pseudoscience including issues of cognitive bias the costs of pseudoscience with accounts of naturopathy and logical fallacies in the anti vaccination movement perceptions of scientific soundness the mainstream presence of integrative medicine hypnosis and parapsychology and the use of case studies and new media in science advocacy Contributors David Ball Paul Joseph Barnett Jeffrey Beall Mark Benisz Fernando Blanco Ron Dumont Stacy Ellenberg Kevin M Folta Christopher French Ashwin Gautam Dennis M Gorman David H Gorski David K Hecht Britt Marie Hermes Clyde F Herreid Jonathan Howard Seth C Kalichman Leif Edward Ottesen Kennair Arnold Kozak Scott O Lilienfeld Emilio Lobato Steven Lynn Adam Marcus Helena Matute Ivan Oransky Chad Orzel Dorit Reiss Ellen Beate Hansen Sandseter Kavin Senapathy Dean Keith Simonton Indre Viskontas John O Willis Corrine Zimmerman      *Scientific Discovery* Aharon Kantorovich, 1993-07-01 Kantorovich analyzes the notion of discovery He views the process as inference and questions whether there is logic or method to discovery He provides an alternative perspective on scientific discovery that explains the difficulties in finding a satisfactory method of discovery Within the framework of evolutionary epistemology discovery is treated as a phenomenon in its own right having psychological and social dimensions Science is viewed as a continuation of the evolutionary process whereby creative discovery plays a role similar to blind mutation in biological evolution From this perspective serendipity and tinkering are key notions in understanding the creative process      The Complexity of Greatness Scott Barry Kaufman, 2013-05-30 What are the origins of greatness The Complexity of Greatness brings together a variety of perspectives across various domains including science mathematics expert memory acting visual arts music and sports It demonstrates that the truth about greatness is far more nuanced and complex than any one viewpoint or paradigm can reveal

**Creativity, Wisdom, and Trusteeship** Anna Craft, Howard Gardner, Guy Claxton, 2007-12-13 An international panel of distinguished experts explores the balance between creativity and wise action and calls for educators to nurture wise

creativity in their students      **Encyclopedia of Creativity** ,2011-05-20 The first edition of the successful Encyclopedia of Creativity served to establish the study of creativity is a field in itself Now completely updated and revised in its second edition coverage encompasses the definition of creativity the development and expression of creativity across the lifespan the environmental conditions that encourage or discourage creativity creativity within specific disciplines like music dance film art literature etc the relationship of creativity and mental health intelligence and learning styles and the process of being creative This reference also appeals to a lay audience with articles specifically on the application of creativity to business settings Available online via ScienceDirect and in limited print release Named a 2012 Outstanding Academic Title by the American Library Association s Choice publication Serves as a compendium of reviews of a number of domain specific areas such as acting dance expressive arts film food music religion science sports theater and writing Creativity and education are examined in articles about thought processes such as developmental trends in creative abilities and potentials the enhancement of creativity intelligence knowledge play prodigies programs and courses talent and teaching creativity Cognitive aspects of creativity can be investigated in articles about altered and transitional states analogies attention cognitive style divergent thinking flow and optimal experience metacognition metaphors problem finding problem solving and remote associates Covers business and organizational creativity in articles about advertising with art creative visuals business management creativity coaching creativity exercises entrepreneurship group dynamics innovation leadership organizational culture organizational development teams and training among others Explicitly examines the complex interrelationship between society and creativity in articles about awards conformity and conventionality the creative sector and class of society cultural diversity the dark side of creativity East vs West networking social psychology war zeitgeist and others Personal and interpersonal creativity is discussed in articles relating to collaboration family life stages mentors networking personal creativity and self actualization Focuses on scientific information about creativity there are also articles that discuss brain and neuropsychology concepts of creativity definitions of creativity expertise longitudinal studies researching art artists and art audiences research methods phenomenology research and qualitative research Online version contains an additional 26 biographies of famously creative people      *Handbook of the Economics of Art and Culture* ,2013-09-16 This volume emphasizes the economic aspects of art and culture a relatively new field that poses inherent problems for economics with its quantitative concepts and tools Building bridges across disciplines such as management art history art philosophy sociology and law editors Victor Ginsburgh and David Throsby assemble chapters that yield new perspectives on the supply and demand for artistic services the contribution of the arts sector to the economy and the roles that public policies play With its focus on culture rather than the arts Ginsburgh and Throsby bring new clarity and definition to this rapidly growing area Presents coherent summaries of major research in art and culture a field that is inherently difficult to characterize with finance tools and concepts Offers a rigorous description that avoids common problems

associated with art and culture scholarship Makes details about the economics of art and culture accessible to scholars in fields outside economics

**Handbook of Research on Creative Problem-Solving Skill Development in Higher Education** Zhou, Chunfang, 2016-09-21 Developing students creative problem solving skills is paramount to today's teachers due to the exponentially growing demand for cognitive plasticity and critical thinking in the workforce In today's knowledge economy workers must be able to participate in creative dialogue and complex problem solving This has prompted institutions of higher education to implement new pedagogical methods such as problem based and case based education The Handbook of Research on Creative Problem Solving Skill Development in Higher Education is an essential comprehensive collection of the newest research in higher education creativity problem solving and pedagogical design It provides the framework for further research opportunities in these dynamic necessary fields Featuring work regarding problem oriented curriculum and its applications and challenges this book is essential for policy makers teachers researchers administrators students of education

The Idea of Creativity Michael Krausz, Denis Dutton, Karen Bardsley, 2009 Seventeen philosophers scientists and artists consider questions about the intriguing idea of creativity Is creativity essentially mysterious Is creativity essentially inspirational or rationalistic What role does skill play in creativity What are the criteria of creativity Should we assign logical priority to creative persons creative processes or creative products How do forms of creativity relate to different domains of human activity How does creativity relate to self transformation How does our knowledge of the circumstances of creativity effect our appreciation of its products Can a recipient of a creative work also be a creator of it Contributors include Margaret Boden Larry Briskman John M Carvalho David Davies Berys Gaut Rom Harré Carl R Hausman Albert Hofstadter Arthur Koestler Michael Krausz Peter Lamarque Thomas Leddy Paisley Livingston Michael Polanyi Dean Keith Simonton and Francis Sparshott

**Handbook of Creativity** Robert J. Sternberg, 1999 The goal of the Handbook of Creativity is to provide the most comprehensive definitive and authoritative single volume review available in the field of creativity To this end the book contains 22 chapters covering a wide range of issues and topics in the field of creativity all written by distinguished leaders in the field The chapters have been written to be accessible to all educated readers with an interest in creative thinking Although the authors are leading behavioral scientists people in all disciplines will find the coverage of creativity divided in the arts and sciences to be of interest The volume is divided into six parts Part I the Introduction sets out the major themes and reviews the history of thinking about creativity Subsequent parts deal with methods origins self and environment special topics and conclusions

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