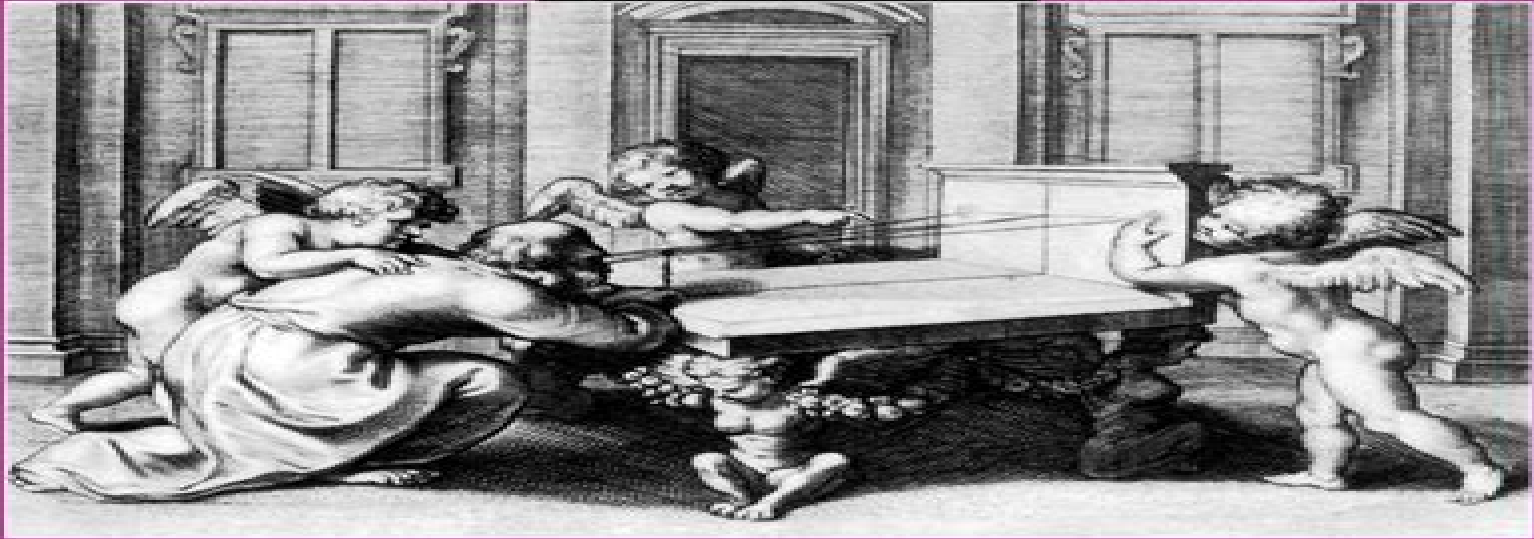


FUNDAMENTALS  
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# The Cognitive Neuroscience of Vision

MARTHA J. FARAH



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# The Cognitive Neuroscience Of Vision Fundamentals Of Cognitive Neuroscience

**Michael S. Gazzaniga**



## **The Cognitive Neuroscience Of Vision Fundamentals Of Cognitive Neuroscience:**

The Cognitive Neuroscience of Vision Martha J. Farah, 2000-06-15 The Cognitive Neuroscience of Vision begins by introducing the reader to the anatomy of the eye and visual cortex and then proceeds to discuss image and representation face recognition printed word recognition visual semantic memory and visual attention and perception *Fundamentals of Cognitive Neuroscience* Nicole M. Gage, Bernard Baars, 2018-03-14 Fundamentals of Cognitive Neuroscience A Beginner's Guide Second Edition is a comprehensive yet accessible beginner's guide on cognitive neuroscience This text takes a distinctive commonsense approach to help newcomers easily learn the basics of how the brain functions when we learn act feel speak and socialize This updated edition includes contents and features that are both academically rigorous and engaging including a step by step introduction to the visible brain colorful brain illustrations and new chapters on emerging topics in cognition research including emotion sleep and disorders of consciousness and discussions of novel findings that highlight cognitive neuroscience's practical applications Written by two leading experts in the field and thoroughly updated this book remains an indispensable introduction to the study of cognition Winner of a 2019 Textbook Excellence Award College Texty from the Textbook and Academic Authors Association Presents an easy to read introduction to mind brain science based on a simple functional diagram linked to specific brain functions Provides new up to date colorful brain images directly from research labs Contains In the News boxes that describe the newest research and augment foundational content Includes both a student and instructor website with basic terms and definitions chapter guides study questions drawing exercises downloadable lecture slides test bank flashcards sample syllabi and links to multimedia resources

**Fundamentals of Cognitive Neuroscience** Bernard Baars, Nicole M. Gage, 2013 This introductory text offers a comprehensive and easy to follow guide to cognitive neuroscience Chapters cover all aspects of the field the neural framework sight sound consciousness learning memory problem solving speech executive control emotions socialization and development in a student friendly format with extensive pedagogy and ancillaries to aid both the student and professor Throughout the text case studies and everyday examples are used to help students understand the more challenging aspects of the material *Fundamentals of Cognitive Science* Thomas Hardy Leahey, 2022-07-19 Fundamentals of Cognitive Science draws on research from psychology philosophy artificial intelligence linguistics evolution and neuroscience to provide an engaging and student friendly introduction to this interdisciplinary field While structured around traditional cognitive psychology topics from attention learning theory and memory to information processing thinking and decision making the book also looks at neural networks cognitive neuroscience embodied cognition and magic to illustrate cognitive science principles The book is organized around the history of thinking about the mind and its relation to the world It considers the evolution of cognition and how it demonstrates how our current thinking about cognitive processes is derived from pre scientific philosophies and common sense through psychologists empirical inquiries into mind and behavior as they pursued a

science of cognition and the construction of artificial intelligences The architectures of cognition are also applied throughout and the book proposes a synthesis of them from traditional symbol system architectures to recent work in embodied cognition and Bayesian predictive processing Practical and policy implications are also considered but solutions are left for the readers to determine Using extended case studies to address the most important themes ideas and findings this book is suitable for upper level undergraduate and graduate courses in psychology and related fields It is also suitable for general readers interested in an accessible treatment of cognitive science and its practical implications Please visit [www.fundamentalsofcognitivescience.com](http://www.fundamentalsofcognitivescience.com) for further resources to accompany the book **The Cognitive Neurosciences**

Michael S. Gazzaniga, 2009-09-18 The fourth edition of The Cognitive Neurosciences continues to chart new directions in the study of the biologic underpinnings of complex cognition the relationship between the structural and physiological mechanisms of the nervous system and the psychological reality of the mind The material in this edition is entirely new with all chapters written specifically for it Book Jacket **Attention** Addie Johnson, Robert W. Proctor, 2004 Attention Theory and Practice provides a balance between a readable overview of attention and an emphasis on how theories and paradigms for the study of attention have developed The book highlights the important issues and major findings while giving sufficient details of experimental studies models and theories so that results and conclusions are easy to follow and evaluate Rather than brushing over tricky technical details the authors explain them clearly giving readers the benefit of understanding the motivation for and techniques of the experiments in order to allow readers to think through results models and theories for themselves Attention is an accessible text for advanced undergraduate and graduate students in psychology as well as an important resource for researchers and practitioners interested in gaining an overview of the field of attention

**Fundamentals of Developmental Cognitive Neuroscience** Heather Bortfeld, Silvia A. Bunge, 2024-02-01 An exciting introduction to the scientific interface between biological studies of the brain and behavioural studies of human development The authors trace the field from its roots in developmental psychology and neuroscience and highlight some of the most persuasive research findings before anticipating future directions the field may take They begin with a brief orientation of the brain along with genetics and epigenetics and then summarise brain development and plasticity Later chapters detail the neurodevelopmental basis of a wide variety of human competencies including perception language comprehension socioemotional development memory systems literacy and numeracy and self regulation Suitable for advanced undergraduate and graduate courses in developmental cognition or neuroscience this textbook covers the prenatal period through to infancy childhood and adolescence It is pedagogically rich featuring interviews with leading researchers learning objectives review questions further reading recommendations and numerous colour figures Instructor teaching is supported by lecture slides and a test bank **Essentials of Cognitive Neuroscience** Bradley R. Postle, 2020-05-27 Essentials of Cognitive Neuroscience introduces and explicates key principles and concepts in cognitive neuroscience in such a way that

the reader will be equipped to critically evaluate the ever growing body of findings that the field is generating For some students this knowledge will be needed for subsequent formal study and for all readers it will be needed to evaluate and interpret reports about cognitive neuroscience research that make their way daily into the news media and popular culture The book seeks to do so in a style that will give the student a sense of what it s like to be a cognitive neuroscientist when confronted with a problem how does one proceed How does one read and interpret research that s outside of one s sub area of specialization How do two scientists advancing mutually incompatible models interrelate Most importantly what does it feel like to partake in the wonder and excitement of this most dynamic and fundamental of sciences

**Models, Simulations, and the Reduction of Complexity** Ulrich Gähde,Stephan Hartmann,Jörn Henning Wolf,2013-11-27 Modern science is to a large extent a model building activity But how are models constructed How are they related to theories and data How do they explain complex scientific phenomena and which role do computer simulations play here These questions have kept philosophers of science busy for many years and much work has been done to identify modeling as the central activity of theoretical science At the same time these questions have been addressed by methodologically minded scientists albeit from a different point of view While philosophers typically have an eye on general aspects of scientific modeling scientists typically take their own science as the starting point and are often more concerned with specific methodological problems There is however also much common ground in middle where philosophers and scientists can engage in a productive dialogue as the present volume demonstrates To do so the editors of this volume have invited eight leading scientists from cosmology climate science social science chemical engineering and neuroscience to reflect upon their modeling work and eight philosophers of science to provide a commentary

**Computational and Cognitive Neuroscience of Vision** Qi Zhao,2016-10-03 Despite a plethora of scientific literature devoted to vision research and the trend toward integrative research the borders between disciplines remain a practical difficulty To address this problem this book provides a systematic and comprehensive overview of vision from various perspectives ranging from neuroscience to cognition and from computational principles to engineering developments It is written by leading international researchers in the field with an emphasis on linking multiple disciplines and the impact such synergy can lead to in terms of both scientific breakthroughs and technology innovations It is aimed at active researchers and interested scientists and engineers in related fields

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