

OXFORD SERIES IN DEVELOPMENTAL COGNITIVE NEUROSCIENCE

SPATIAL REPRESENTATION

FROM GENE
TO MIND

BARBARA LANDAU
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Spatial Representation From Gene To Mind Developmental Cognitive Neuroscience

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Spatial Representation From Gene To Mind Developmental Cognitive Neuroscience:

Spatial Representation Barbara Landau, James E. Hoffman, 2012-08-23 Our experience of the spatial world is a unitary one we perceive objects and layouts we remember them and act on them and we can even talk about them with ease Despite this impression of seamlessness spatial representations in human adults appear to be specialized in domain dependent manner engaging different properties and computational mechanisms for different functions In this book the authors present evidence that this domain specific specialization in cognitive function emerges early in development and is reflected in patterns of breakdown that occur under genetic defect The authors focus on spatial representation in children and adults with Williams syndrome a relatively rare genetic syndrome that gives rise to an unusual profile of severely impaired spatial representation together with spared language Results from a variety of spatial domains including object representation motion perception action navigation and spatial language appear to display a strikingly uneven profile of sparing and deficit within spatial representations consistent with the idea that specialization of function drives development and breakdown These findings raise a crucial question Can specific genes target specific aspects of cognitive structure Looking deeper into the patterns of performance across spatial domains the book explores the notion that understanding patterns of normal development across domains is crucial to understanding unusual development Using insights from normal development the authors propose a speculative hypothesis that explains the emergence of the William syndrome profile and how complex cognitive outcomes can arise from the deletion of a small set of genes

Spatial Representation Barbara Landau, 2012 Despite our impression of a seamless spatial world mature human spatial knowledge is composed of sub systems each specialized This book uses the case of Williams syndrome to argue for specialization of function in both normal and unusual development The evidence suggests a speculative hypothesis linking the genetic deficit to changes in the timing of emergence for different sub systems

Spatial Representation Barbara Landau, James E. Hoffman, 2012-10-18 Despite our impression of a seamless spatial world mature human spatial knowledge is composed of sub systems each specialized This book uses the case of Williams syndrome a rare genetic deficit to argue for specialization of function in both normal and unusual development The evidence suggests a speculative hypothesis linking the genetic deficit to changes in the timing of emergence for different sub systems More broadly the book shows the complexity of spatial cognition its genetic correlates and realization in the brain

The Emerging Spatial Mind Jodie M. Plumert, John P. Spencer, 2007-04-12 Humans are profoundly influenced by the space around us This volume sheds light on how our experiences thinking about and interacting in space through time foster and shape the emerging spatial mind

Dynamic Thinking Gregor Schöner, John P. Spencer, 2016 This book describes a new theoretical approach Dynamic Field Theory DFT that explains how people think and act

Developmental Cognitive Neuroscience Mark H. Johnson, 2010-10-18 The third edition of Developmental Cognitive Neuroscience presents a thorough updating and enhancement of the classic text that introduced the rapidly expanding field

of developmental cognitive neuroscience Includes the addition of two new chapters that provide further introductory material on new methodologies and the application of genetic methods in cognitive development Includes several key discussion points at the end of each chapter Features a greater focus on mid childhood and adolescence to complement the previous edition s emphasis on early childhood Brings the science closer to real world applications via a greater focus on fieldwork Includes a greater emphasis on structural and functional brain imaging

The Oxford Handbook of Intellectual Disability and Development Jacob A. Burack,2012 We know considerably more about persons with intellectual disability than we did even a decade ago Seeking to improve and increase upon this knowledge this book provides a map to continue sophisticated and precise research to inspire professionals involved with intellectual disability and to better the lives of persons affected by it

Theory of Mind Martin Doherty,2008-08-26 A concise and readable review of the extensive research into children s understanding of what other people think and feel providing a comprehensive overview of 25 years of research into theory of mind

Handbook of Developmental Cognitive Neuroscience, second edition Charles A. Nelson,Monica Luciana,2008-07-11 The second edition of an essential resource to the evolving field of developmental cognitive neuroscience completely revised with expanded emphasis on social neuroscience clinical disorders and imaging genomics The publication of the second edition of this handbook testifies to the rapid evolution of developmental cognitive neuroscience as a distinct field Brain imaging and recording technologies along with well defined behavioral tasks the essential methodological tools of cognitive neuroscience are now being used to study development Technological advances have yielded methods that can be safely used to study structure function relations and their development in children s brains These new techniques combined with more refined cognitive models account for the progress and heightened activity in developmental cognitive neuroscience research The Handbook covers basic aspects of neural development sensory and sensorimotor systems language cognition emotion and the implications of lifelong neural plasticity for brain and behavioral development The second edition reflects the dramatic expansion of the field in the seven years since the publication of the first edition This new Handbook has grown from forty one chapters to fifty four all original to this edition It places greater emphasis on affective and social neuroscience an offshoot of cognitive neuroscience that is now influencing the developmental literature The second edition also places a greater emphasis on clinical disorders primarily because such research is inherently translational in nature Finally the book s new discussions of recent breakthroughs in imaging genomics include one entire chapter devoted to the subject The intersection of brain behavior and genetics represents an exciting new area of inquiry and the second edition of this essential reference work will be a valuable resource for researchers interested in the development of brain behavior relations in the context of both typical and atypical development

Developmental Cognitive Neuroscience Michelle D. H. de Haan,Iroise Dumontheil,Mark H. Johnson,2023-03-28 Landmark text focusing on the development of brain and behavior during infancy childhood and adolescence Developmental

Cognitive Neuroscience provides an accessible introduction to the main methods theories and empirical findings of developmental cognitive neuroscience The focus is on human development from in utero to early adulthood but key comparative work is also included This new edition covers research in clinical medical populations educational applications and major advancements in methods and analysis in particular with increasing longitudinal research focusing on understanding the mechanisms of cognitive development It also contains a new chapter on global and cross cultural perspectives outlining how developmental cognitive neuroscience has been applied in different settings and how techniques can be successfully adapted The text features a variety of student friendly features such as chapter end discussion applications of basic research and introductions to key experimental methods An accompanying related resource website for students and educators that includes a test bank of multiple choice questions is also provided Other sample topics covered in Developmental Cognitive Neuroscience include Biology of change methods and populations from gene to brain building a brain and vision orienting and attention Perceiving and acting in a world of objects learning and long term memory language and prefrontal cortex working memory and decision making Perceiving and acting in the social world educational neuroscience interactive specialization and integrating development cognitive neuroscience Mid childhood and adolescent development social cognition and neuroimaging and broader cognitive neuroscience approaches and theory With expansive yet accessible coverage of the subject Developmental Cognitive Neuroscience is an ideal resource for upper level undergraduate and early postgraduate readers The text will further appeal to professionals in fields that have adopted developmental cognitive neuroscience approaches such as education clinical psychology pediatric medicine and global health

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