



# MAKING SPACE

*How the Brain Knows Where Things Are*

JENNIFER M. GROH

# Making Space How The Brain Knows Where Things Are

**Howard Burton**



## **Making Space How The Brain Knows Where Things Are:**

Making Space Jennifer M. Groh, 2014-11-05 Knowing where things are seems effortless Yet our brains devote tremendous power to figuring out simple details about spatial relationships Jennifer Groh traces this mental detective work to show how the brain creates our sense of location and makes the case that the brain's systems for thinking about space may be the systems of thought itself

Knowing One's Place: Space and the Brain Howard Burton, 2020-10-01 This book is based on an in depth filmed conversation between Howard Burton and Jennifer Groh Professor of Psychology and Neuroscience at Duke University After an inspiring story about how she became interested in neuroscience this extensive conversation examines Jennifer Groh's extensive research on how the brain combines various streams of sensory input to determine where things are together with the corresponding implications for a wide range of issues from neuroplasticity to evolutionary mechanisms This carefully edited book includes an introduction Framing Evolution and questions for discussion at the end of each chapter

I From Ticks to Brains Becoming a neuroscientist II Historical Background On the shoulders of giants III Frames of Reference Integrating sensory systems IV Mysterious Overlap Fitting the pieces together V Smell An overlooked sense VI Brain Maps Making a picture VII Ice Cream Cones and Multiplexing Same neurons different functions VIII Navigating Rats Place fields and memory IX Neuroplasticity Phantom limbs cochlear implants and feedback X Evolutionary Mechanisms Repeat performance XI The Road Ahead Testing neurons for contrast About Ideas Roadshow Conversations Presented in an accessible conversational format Ideas Roadshow books not only explore frontline academic research but also reveal the inspirations and personal journeys behind the research

**Space** Andrew Janiak, 2020-01-23 Recurrent questions about space have dogged philosophers since ancient times Can an ordinary person draw from his or her perceptions to say what space is Or is it rather a technical concept that is only within the grasp of experts Can geometry characterize the world in which we live What is God's relation to space In Ancient Greece Euclid set out to define space by devising a codified set of axioms and associated theorems that were then passed down for centuries thought by many philosophers to be the only sensible way of trying to fathom space Centuries later when Newton transformed the natural philosophy of the seventeenth century into the physics of the eighteenth century he placed the mathematical analysis of space time and motion at the center of his work When Kant began to explore modern notions of idealism and realism space played a central role But the study of space was transformed forever when in 1915 Einstein published his general theory of relativity explaining that the world is not Euclidean after all This volume chronicles the development of philosophical conceptions of space from early antiquity through the medieval period to the early modern era The chapters describe the interactions at different moments in history between philosophy and various other disciplines especially geometry optics and natural science more generally Fascinating central figures from the history of mathematics science and philosophy are discussed including Euclid Plato Aristotle Proclus Ibn al Haytham Nicole Oresme Kepler Descartes Newton Leibniz Berkeley and Kant As with other books in

the series shorter essays or Reflections enrich the volume by characterizing perspectives on space found in various disciplines including ecology mathematics sculpture neuroscience cultural geography art history and the history of science

A History of Women in Psychology and Neuroscience Dale DeBakcsy, 2024-09-30 Since virtually its first moments as an academic science women have played a major role in the development of psychology gaining from the outset research opportunities and academic positions that had been denied them for centuries in other branches of scientific investigation Look wherever you will in any branch of psychology or neuroscience in the last century and a half and what you will find are a plethora of women whose discoveries fundamentally changed how we view the brain and its role in the formation of our perceptions and behaviors A History of Women in Psychology and Neuroscience tells the story of 267 women whose work opened new doors in humanity's ongoing attempt to learn about its own nature from Christine Ladd Franklin's late 19th century studies of how the brain perceives color to Virginia Johnson's pioneering studies of the human sexual response and Augusta Dejerine Klumpke's early association of neurological conditions with their underlying brain regions to May Britt Moser's Nobel winning discovery a century later of the grid cells that allow us to mentally model our surroundings Here are the stories of when and how we learned how memories are formed what role an enriched environment plays in mental development why some individuals are better able to cope with chronic stress than others how societal stereotypes unconsciously feed into our daily interactions with other people what role evolution might have played in the formation of our social habits what light the practices of sign language might shed on our brain's basic capacity for language how children internalize the violence they experience from others and hundreds of other tales of the women who dug deep into the structures of the human mind to uncover layer by layer the answers to millennia old questions of what humans are and why they behave as they do

A New Map of Wonders Caspar Henderson, 2017-11-15 Henderson teaches us how to wonder anew with a new vision of science illuminated by a rich range of literature philosophy art and music Hugh Aldersey Williams author of *Dutch Light* We live in a world that is known every corner thoroughly explored But has this knowledge cost us the ability to wonder Wonder Caspar Henderson argues is at its most supremely valuable in just such a world because it reaffirms our humanity and gives us hope for the future That's the power of wonder and that's what we should aim to cultivate in our lives But what are the wonders of the modern world Henderson's brilliant exploration borrows from the form of one of the oldest and most widely known sources of wonder maps Large detailed mappae mundi invited people in medieval Europe to vividly imagine places and possibilities they had never seen before manticores with the head of a man the body of a lion and the stinging tail of a scorpion tribes of one eyed men who fought griffins for diamonds and fearsome Scythian warriors who drank the blood of their enemies from their skulls A New Map of Wonders explores these and other realms of the wonderful in different times and cultures and in the present day taking readers from Aboriginal Australian landscapes to sacred sites in Great Britain all the while keeping sight questions such as the cognitive basis of wonder and the relationship

between wonder and science Beautifully illustrated and written with wit and moral complexity this sequel to *The Book of Barely Imagined Beings* is a fascinating account of the power of wonder and an unforgettable meditation on its importance to our future

**Perception** Nicola Bruno, Francesco Pavani, 2018-07-26 The way that we interact with the environment on a daily basis is inherently multisensory Even a simple task such as judging the location of a light in a dark room depends not only on vision but also on proprioceptive cues about the position of our body in space The way that we experience food can be influenced not just by taste and smell but by visual and auditory cues *Perception* A multisensory perspective adopts a multisensory approach to understanding perception Rather than discussing each sense separately this book defines perception as intrinsically multisensory from the start and examines multisensory interactions as the key process behind how we perceive our own body control its movements and perceive and recognise objects space and time But the book delves even deeper It discusses multisensory processing in conditions such as synaesthesia It addresses attention and the role of multisensory processing in learning By focussing on these domains the authors highlight and identify general principles in the field of perception study and introduce models experimental methods and pathologies that will be of interest to all those studying within the field of perception The authors also illustrate applications that will be of interest to professionals whose work takes multisensory processing into account As an introduction to the topic of multisensory perception *Perception* A multisensory perspective will be essential reading for students from advanced undergraduate level through to postgraduate level in psychology philosophy and neuroscience Those studying physiotherapy and neurological rehabilitation human computer interface development or the design of products or services will also find this book of interest

*When Brains Meet Buildings* Michael A. Arbib, 2021-08-17 After decades of research on minds and brains and a decade of conversations with architects Michael Arbib presents *When Brains Meet Buildings* as an invitation to the science behind architecture richly illustrated with buildings both famous and domestic As he converses with the reader he presents action oriented perception memory and imagination as well as atmosphere aesthetics and emotion as keys to analyzing the experience and design of architecture He also explores what it might mean for buildings to have brains and illuminates all this with an appreciation of the biological and cultural evolution that supports the diverse modes of human living that we know today These conversations will not only raise the level of interaction between architecture and neuroscience but by explaining the world of each group to the other will also engage all readers who share a fascination with both the brains within them and the buildings around them Michael Arbib is a pioneer in the interdisciplinary study of computers and brains and has long studied brain mechanisms underlying the visual control of action His expertise makes him a unique authority on the intersection of architecture and neuroscience

*Illuminating Metalwork* Joseph Salvatore Ackley, Shannon L. Wearing, 2021-12-20 The presence of gold silver and other metals is a hallmark of decorated manuscripts the very characteristic that makes them illuminated Medieval artists often used metal pigment and leaf to depict metal objects both real and imagined such as

chalices crosses tableware and even idols the luminosity of these representations contrasted pointedly with the surrounding paints enriching the page and dazzling the viewer To elucidate this key artistic tradition this volume represents the first in depth scholarly assessment of the depiction of precious metal objects in manuscripts and the media used to conjure them From Paris to the Abbasid caliphate and from Ethiopia to Bruges the case studies gathered here forge novel approaches to the materiality and pictoriality of illumination In exploring the semiotic material iconographic and technical dimensions of these manuscripts the authors reveal the canny ways in which painters generated metallic presence on the page Illuminating Metalwork is a landmark contribution to the study of the medieval book and its visual and embodied reception and is poised to be a staple of research in art history and manuscript studies accessible to undergraduates and specialists alike **ICGG**

**2018 - Proceedings of the 18th International Conference on Geometry and Graphics** Luigi Cocchiarella, 2018-07-06

This book gathers peer reviewed papers presented at the 18th International Conference on Geometry and Graphics ICGG held in Milan Italy on August 3 7 2018 The spectrum of papers ranges from theoretical research to applications including education in several fields of science technology and the arts The ICGG 2018 mainly focused on the following topics and subtopics Theoretical Graphics and Geometry Geometry of Curves and Surfaces Kinematic and Descriptive Geometry Computer Aided Geometric Design Applied Geometry and Graphics Modeling of Objects Phenomena and Processes Applications of Geometry in Engineering Art and Architecture Computer Animation and Games Graphic Simulation in Urban and Territorial Studies Engineering Computer Graphics Computer Aided Design and Drafting Computational Geometry Geometric and Solid Modeling Image Synthesis Pattern Recognition Digital Image Processing and Graphics Education Education Technology Research Multimedia Educational Software Development E learning Virtual Reality Educational Systems Educational Software Development Tools MOOCs Given its breadth of coverage the book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education **Transnational Religious Spaces** Philip Clart, Adam

Jones, 2020-07-06 This volume bringing together work by scholars from Europe East Asia North America and West Africa investigates transnational religious spaces in a comparative manner by juxtaposing East Asian and African examples It highlights flows of ideas actors and organizations out of into or within a given continental space These flows are patterned mainly by colonialism or migration The book also examines cases where the transnational space in question encompasses both East Asia and Africa notably in the development of Japanese new religions in Africa Most of the studies are located in the present a few go back to the late nineteenth century The volume is rounded off by Thomas Tweed's systematic reflections on categories for the study of transnationalism his chapter Flows and Dams critically weighs the metaphorical language we use to think speak and write about transnational religious spaces **Theatre Symposium, Vol. 24** Arnab

Banerji, 2016-07-19 At a time when so many options exist for access to theatrical entertainments it is no surprise that theatre

practitioners and scholars are often preoccupied with the role of the audience While space undoubtedly impacts the rehearsal and production processes its greater significance seems to rest in the impact a specific location has on the audience This volume delves into issues of theatre and space traversing traditional theatre spaces such as the African Grove Theater discussed by Gregory Carr Tony Gunn s examination of Edward Gorey s theatrical designs and George Pate s reflections on Beckett s stage directors Also highlighted are some decidedly innovative spaces like those described by J K Curry in her examination of Theatre for One and modern uses of medieval sacred spaces as detailed by Carla Lahey Whether positive or negative in scope meanings generated within theatre spaces are impacted by the cultural context from which they emerge the ways in which space is conceived scrutinized and experiences As a result the relationship between space theatre and audience is diverse complex and ever changing in practice

### **From Object to Experience** Harry Francis

Mallgrave,2018-06-28 Harry Francis Mallgrave combines a history of ideas about architectural experience with the latest insights from the fields of neuroscience cognitive science and evolutionary biology to make a powerful argument about the nature and future of architectural design Today the sciences have granted us the tools to help us understand better than ever before the precise ways in which the built environment can affect the building user s individual experience Through an understanding of these tools architects should be able to become better designers prioritizing the experience of space the emotional and aesthetic responses and the sense of homeostatic well being of those who will occupy any designed environment In From Object to Experience Mallgrave goes further arguing that it should also be possible to build an effective new cultural ethos for architectural practice Drawing upon a range of humanistic and biological sources and emphasizing the far reaching implications of new neuroscientific discoveries and models this book brings up to date insights and theoretical clarity to a position that was once considered revolutionary but is fast becoming accepted in architecture

### *Designing*

*Across Senses* Christine W. Park,John Alderman,2018-03-22 Today we have the ability to connect speech touch haptic and gestural interfaces into products that engage several human senses at once This practical book explores examples from current designers and devices to describe how these products blend multiple interface modes together into a cohesive user experience Authors Christine Park and John Alderman explain the basic principles behind multimodal interaction and introduce the tools you need to root your design in the ways our senses shape experience This book also includes guides on process design and deliverables to help your team get started The book covers several topics within multimodal design including New Human Factors learn how human sensory abilities allow us to interact with technology and the physical world New Technologies explore some of the technologies that enable multimodal interactions products and capabilities Multimodal Products examine different categories of products and learn how they deliver sensory rich experiences Multimodal Design learn processes and methodologies for multimodal product design development and release

**Numinous Fields: Perceiving the Sacred in Nature, Landscape, and Art** Samer Akkach,John Powell,2024-05-13

Numinous Fields has its roots in a phenomenological understanding of perception. It seeks to understand what beyond the mere sensory data they provide. Landscape, nature, and art both separately and jointly may mean when we experience them. It focuses on actual or potential experiences of the numinous or sacred that such encounters may give rise to. This volume is multi-disciplinary in scope. It examines perceptions of place, space, nature, and art, as well as perceptions of place, space, and nature in art. It includes chapters written by art curators and historians and scholars in the fields of landscape architecture, cultural geography, religious studies, philosophy, and art. Its chapters examine ideas, objects, and practices from the ancient time of Aboriginal Australians Dreaming through to the present. The volume is also multi-cultural in scope and includes chapters focussed on manifestations of the sacred in indigenous culture, in cultures influenced by each of the world's major religions, and in the secular contemporary world. Foreword by Jeff Malpas. Contributors: Samer Akkash, James Bennett, Veronica della Dora, Alasdair Forbes, Virginia Hooker, Philip Jones, Russell Kelty, Muchammadun Tracey, Lock Ellen Philpott, Teo John, Powell Rebekah, Pryor Wendy, Shaw. *The Myofascial System in Form and Movement* Lauri Nemetz, 2022-12-21. The field of myofascial science is changing rapidly. In *The Myofascial System in Form and Movement* Lauri Nemetz invites readers into the rich dialogue around movement, delving into anatomy, concepts of space, and the many other disciplines that are taking interest in the myofascial universe. Nemetz uses insights from our spatial relationship with the world to examine the human body, giving voice to the ideas and work of leaders in this area and prompting readers to develop their own ideas, as well as offering application suggestions to discover in your own body or with others. With an extensive background in art history, myofascial movement, anatomical dissection, and more, Nemetz uses her wealth of experience to weave together the many facets of this evolving area in a visually rich and thought-provoking book. **From Here to There** Michael Bond, 2020-05-12. A Wired Most Fascinating Book of the Year. An important book that reminds us that navigation remains one of our most underappreciated arts. Tristan Gooley, author of *The Lost Art of Reading Nature's Signs*. If you want to understand what rats can teach us about better planned cities, why walking into a different room can help you find your car keys, or how your brain's grid border and speed cells combine to give us a sense of direction, this book has all the answers. *The Scotsman*. How is it that some of us can walk unfamiliar streets without losing our way while the rest of us struggle even with a GPS? Navigating in uncharted territory is a remarkable feat if you stop to think about it. In this beguiling mix of science and storytelling, Michael Bond explores how we do it, how our brains make the cognitive maps that keep us orientated, and how that anchors our sense of wellbeing. Children are instinctive explorers, developing a spatial understanding as they roam. And yet today few of us make use of the wayfinding skills that we inherited from our nomadic ancestors. Bond tells stories of the lost and found sailors, orienteering champions, early aviators, and explores why being lost can be such a devastating experience. He considers how our understanding of the world around us affects our psychology and helps us see how our reliance on technology may be changing who we are. Bond concludes that by setting aside our GPS devices, by redesigning



parts of our cities and play areas and sometimes just by letting ourselves get lost we can indeed revivify our ability to find our way to the benefit of our inner world no less than the outer one Science A thoughtful argument about how our ability to find our way is integral to our nature Sunday Times

**Energy Performance in Buildings and Quality of Life** Kristian Fabbri, 2020-12-10 Buildings allow several kinds of human activity work eat sleep play etc and they have a role in determining quality of life ugly and uncomfortable buildings can be the worst place to live The energy performance of buildings has a special role in improving and guaranteeing quality of life because it concerns architectural design energy cost consumption and energy poverty and thermal comfort both indoor and outdoor Following a multidisciplinary approach we present several case studies and articles about the correlation between building and quality of life The included research highlights the relationship between BEP and quality of life in terms of wellbeing and thermal comfort and household smartness following UE Directive 844 2018 as well as the reduction of energy poverty and the impact of buildings on the environment and global warming Also in this book is a city scale study that attempts to evaluate the effect of climate change on building performance and building energy efficiency mapping and moreover reports some cases of indoor environment quality as well as thermal comfort in nearly zero energy buildings finally detailed scientific literature on energy poverty and outdoor wellbeing quality of life are presented

The Geography of Names Gwilym Lucas Eades, 2016-07-15 This book examines geographical names place names and toponymy from philosophical and cultural evolutionary perspectives Geographical name tracking networks Geo NTNs are posited as tools for tracking names through time and across space and for making sense of how names evolve both temporally and spatially Examples from North and South American indigenous groups the Canadian arctic Wales England and the Middle East are brought into a theoretical framework for making sense of aspects of place naming practices beliefs and systems New geographical tools such as geographic information systems GIS and global positioning systems GPS are demonstrated to be important in the production and maintenance of robust networks for keeping names and their associated meanings viable in a rapidly changing world where place naming is being taken up increasingly in social media and other new mapping platforms The Geography of Names makes the case that geographical names are transmitted memetically i e as cultural units or memes through what Saul Kripke called communication chains Combining insights from Kripke with views of later Wittgenstein on language and names as being inherently spatial the present work advances theories of both these thinkers into an explicitly geographical inquiry that advances philosophical and practical aspects of naming language and mapping

**InterVIEWS** Federica Goffi, 2019-12-05 With the continued growth of PhD programs in architecture and the simultaneous broadening of approaches InterVIEWS Insights and Introspection on Doctoral Research in Architecture begins a timely survey into contemporary research at academic institutions internationally in the context of the expanding landscape of architectural inquiry The eighteen interviews with scholars who direct or contributed to doctoral research programs in areas of architecture history and theory theory and criticism design research

urban studies cross disciplinary research and practice based research expose a plurality of positions articulating a range of research tactics Renowned scholars narrated the stories the experiences and the research that shaped and are shaping doctoral education worldwide providing an invaluable knowledge resource from which readers may find inspiration for their work InterVIEWS acknowledges the diversity in approaches to research to evidence meaningful differences and the range of contributions in academic institutions The relevance of this self reflection becomes apparent in the exposition of vibrant and at times divergent viewpoints that offer a thought provoking opportunity to consider the openness and breadth of a field that is unrelenting in redefining its boundaries along with the probing questions

*Mastering Primary Languages* Paula Ambrossi, Darnelle Constant-Shepherd, 2018-03-22 *Mastering Primary Languages* introduces the primary languages curriculum and helps trainees and teachers learn how to plan and teach inspiring lessons that make language learning irresistible Topics covered include Current developments in languages Languages as an irresistible activity Languages as a practical activity Skills to develop in languages Promoting curiosity Assessing children in languages Practical issues This guide includes examples of children s work case studies readings to reflect upon and reflective questions that all help to exemplify what is considered to be best and most innovative practice The book draws on the experience of two leading professionals in primary languages Paula Ambrossi and Darnelle Constant Shepherd to provide the essential guide to teaching languages for all trainee and qualified primary teachers

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