

GENDER DIFFERENCES IN VISUOSPATIAL WORKING MEMORY

¹Safal Srivastava, ²Reetika Pal

Abstract

Visual-spatial working memory measures are widely used in clinical and experimental settings. Sex differences in visual-spatial working memory have important implication for research, theory, and practice, but they have yet to be quantified. The objective of this research is to study the gender differences on the visuo-spatial working memory. Since there aren't enough researches regarding the relationship of gender and visuo-spatial short term memory, so this research studies the direct relation among these variables and though working memory ideal models are broadly utilized in neuro-scientific and mental research, definitive information about potential variables, for example, sexual orientation is as yet absent. This study was conducted on 50 individuals (25 males and 25 females) among the age of 18 - 25 years. The tool utilised in this study is Corsi Block Test, which is a test that surveys visuo-spatial working memory. The result obtained shows that there is no significant difference in the visuo-spatial working memory of males and females.

Keywords:- Visual-Spatial working Memory, Gender Differences

I. INTRODUCTION

Memory is the capacity to learn, store it, and review it at a later time. In psychology, memory is broken into three phases: encoding, storage, and retrieval. **Encoding (or registration):** the way toward accepting, handling, and joining data. Encoding enables data from the outside world to achieve our faculties in the types of substance and physical upgrades. In this first stage we should change the data so we may put the memory into the encoding procedure. **Storage:** the formation of a perpetual record of the encoded data. Capacity is the second memory stage or process in which we keep up data over timeframes. **Retrieval (or recall, or recognition):** the getting back to back of put away data in light of some signal for use in a procedure or movement. The third procedure is the recovery of data that we have put away. We should find it and return it to our awareness. Some recovery endeavours might be easy because of the kind of data. **Short-Term memory** is otherwise called **working memory**. It holds only several things (investigate exhibits an extent of 7 ± 2 things) and continues for around 20 seconds. Regardless, things can be moved from without a moment's hesitation memory to long haul memory by methods for techniques like practice. An instance of training is the time when someone gives you a phone number verbally and you say it to yourself on and on until the point when the moment that you can record it. If someone barges in on your training by making a request, you can without quite a bit of a stretch

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Visuospatial Working Memory And

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Visuospatial Working Memory And:

Does Visuospatial Working Memory Affect Wayfinding Using Two- and Three-Dimensional Maps? Olivia J. Cody, 2018

Visuospatial working memory and map usage are very important in wayfinding. The current study investigated the influence of two or three dimensional maps and of visuospatial working memory components on wayfinding. Before participants were brought to the wayfinding environment they were asked to examine a two dimensional map, three dimensional map or walk around the wayfinding environment. During wayfinding participants needed to perform two secondary tasks: visual and spatial. To tax the components of visuospatial working memory versus control: no secondary task. Wayfinding times, turns and pauses were recorded. Overall wayfinding performance: wayfinding time, pauses, number of turns was worst when spatial working memory was taxed and best for the control trials. As expected, secondary tasks interacted with learning experience and secondary task order such that wayfinding performance decreased with three dimensional map, two dimensional map and the exploration conditions for the control trials, whereas wayfinding performance increased across these conditions for the secondary task trials. These findings confirm that spatial working memory is important for wayfinding and suggest that spatial details available in three dimensional maps might improve performance.

Working Memory and Academic Learning Milton J. Dehn, 2011-01-04

Equipping school and child psychologists and neuropsychologists with critical information on the role of working memory in learning and achievement. Working Memory and Academic Learning offers guidance on assessment tools, interventions and current evidence based best practices. Its specific step by step guidance and hands on case studies enables you to identify how working memory relates to academic attainment and how to apply this knowledge in professional practice.

Working Memory and Neurodevelopmental Disorders Tracy Packiam Alloway, Susan E. Gathercole, 2012-08-06

Short term or working memory: the capacity to hold and manipulate information mentally over brief periods of time. It plays an important role in supporting a wide range of everyday activities, particularly in childhood. Children with weak working memory skills often struggle in key areas of learning and given its impact on cognitive abilities, the identification of working memory impairments is a priority for those who work with children with learning disabilities. Working Memory and Neurodevelopmental Disorders supports clinical assessment and management of working memory deficits by summarising the current theoretical understanding and methods of assessment of working memory. It outlines the working memory profiles of individuals with a range of neurodevelopmental disorders including Down's syndrome, Williams syndrome, Specific Language Impairment and ADHD and identifies useful means of alleviating the anticipated learning difficulties of children with deficits of working memory. This comprehensive and informative text will appeal to academics and researchers in cognitive psychology, neuropsychology and developmental psychology and will be useful reading for students in these areas. Educational psychologists will also find this a useful text as it covers the role of working memory in learning difficulties specific to the classroom.

Working Memory and Clinical Developmental Disorders Tracy Packiam

Alloway,2018-03-19 This comprehensive volume brings together international experts involved in applying and developing understanding of Working Memory in the context of a variety of neurodevelopmental disorders neurocognitive disorders and depressive disorders Each chapter provides a description of the disorder and investigates the Working Memory and related Executive Function deficits It goes on to provide a neurological profile before exploring the impact of the disorder in daily functions the current debates related to this disorder and the potential effects of medication and intervention Through combining coverage of theoretical understanding methods of assessment and different evidence based intervention programs the book supports clinical assessment and management of poor Working Memory It is essential reading for students in neurodevelopmental disorders atypical development and developmental psychopathology as well as allied health professionals clinicians and those working with children in education and healthcare settings

The Cognitive Neuroscience of Visual Working Memory Natasha Sigala,Zsuzsa Kaldy,2017-06-02 Visual working memory allows us to temporarily maintain and manipulate visual information in order to solve a task The study of the brain mechanisms underlying this function began more than a half century ago with Scoville and Milner s 1957 seminal discoveries with amnesic patients This timely collection of papers brings together diverse perspectives on the cognitive neuroscience of visual working memory from multiple fields that have traditionally been fairly disjointed human neuroimaging electrophysiological behavioural and animal lesion studies investigating both the developing and the adult brain

Spatial Working Memory André Vandierendonck,Arnaud Szmalec,2014-02-04 Spatial working memory is the ability to remember the location in which something is perceived and in addition the ability to recall a series of visited locations In this book top researchers in the domain of spatial working memory review and discuss findings about the processes and memory structures which underlie the ability to store and use spatial information The first part of the book provides an examination of the working memory system looking at the behavioural and neural processes involved in working with visuo spatial information and how these can constrain the hypotheses that are generated It also addresses methodological questions for example looking at how the use of the appropriate method can ensure that the observed data are as informative as possible about the underlying structures The remaining chapters focus on specific problems to do with spatial working memory such as how the working memory system can handle individual differences in representing spatial interactions how the visuospatial system can support and interact with the environment and the verbal system and how understanding these systems can shed light on the development of particular skills in children with developmental disorders With contributions from leading international figures in the field this book is the first to address the topic of spatial working memory from a range of theoretical and methodological perspectives As such it will serve as an indispensable tool for students and researchers interested in working memory

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Johnson,Michelle D. H. de Haan,2015-06-22 Developmental Cognitive Neuroscience 4th Edition is a revised and updated edition of the landmark text focusing on the development of brain and behaviour during infancy childhood and adolescence Offers a comprehensive introduction to all issues relating to the nature of brain behaviour relationships and development New or greatly expanded coverage of topics such as epigenetics and gene expression cell migration and stem cells sleep and learning memory socioeconomic status and development of prefrontal cortex function Includes a new chapter on educational neuroscience featuring the latest findings on the application of cognitive neuroscience methods in school age educational contexts Includes a variety of student friendly features such as chapter end discussion practical applications of basic research and material on recent technological breakthroughs Long-Term Memory Problems in Children and Adolescents

Milton J. Dehn,2010-08-02 This book will be a valuable resource for psychologists and educators who work with children or adolescents who are having difficulties with memory and learning Translating theory and research into practice is a talent that Dr Dehn possesses and we will benefit from his professional skills From the Foreword by Daniel C Miller PhD ABPP ABSNP NCSP AN INDISPENSABLE GUIDE THAT EXAMINES THE EFFECT OF LONG TERM MEMORY FUNCTIONS ON CHILDREN S LEARNING Long Term Memory Problems in Children and Adolescents Assessment Intervention and Effective Instruction is the first book of its kind for psychologists school psychologists and special education teachers who need an overview of long term memory as it relates to learning and education It presents the best practices for assessing long term memory functions as well as selecting and using evidence based instructional practices with memory impaired students This useful and timely guide bridges theory and practice to provide professional guidance with coverage of Risk factors that can lead to long term memory impairments How long term memory relates to other types of memory The subcomponents and

processes of long term memory and how they relate to academic achievement What is known about the neuroanatomy of how memories are formed The developmental trajectory of memory and learning Common types of memory dysfunction Memory assessment strategies interventions for memory problems and instructional practices that support memory Author Milton Dehn draws on his extensive experience as a trainer and workshop presenter school psychologist and educator to present both the theory and research on long term memory in children and adolescents in this book Specific step by step guidance and hands on case studies enable professionals to identify how memory can be assessed as well as the interventions that can be linked to the results of the assessment

Multitasking: Executive Functioning in Dual-Task and Task Switching Situations Tilo Strobach, Mike Wendt, Markus Janczyk, 2018-03-27 Multitasking refers to performance of multiple tasks The most prominent types of multitasking are situations including either temporal overlap of the execution of multiple tasks i e dual tasking or executing multiple tasks in varying sequences i e task switching In the literature numerous attempts have aimed at theorizing about the specific characteristics of executive functions that control interference between simultaneously and or sequentially active component of task sets in these situations However these approaches have been rather vague regarding explanatory concepts e g task set inhibition preparation shielding capacity limitation widely lacking theories on detailed mechanisms and or empirical evidence for specific subcomponents The present research topic aims at providing a selection of contributions on the details of executive functioning in dual task and task switching situations The contributions specify these executive functions by focusing on 1 fractionating assumed mechanisms into constituent subcomponents 2 their variations by age or in clinical subpopulations and or 3 their plasticity as a response to practice and training

Heterogeneity of Function in Numerical Cognition Avishai Henik, Wim Fias, 2018-05-17 Heterogeneity of Function in Numerical Cognition presents the latest updates on ongoing research and discussions regarding numerical cognition With great individual differences in the development or function of numerical cognition at neuroanatomical neuropsychological behavioral and interactional levels these issues are important for the achievement of a comprehensive understanding of numerical cognition hence its brain basis development breakdown in brain injured individuals and failures to master mathematical skills These functions are essential for the proper development of numerical cognition Provides an innovative reference on the emerging field of numerical cognition and the branches that converge on this diverse cognitive domain Includes an overview of the multiple disciplines that comprise numerical cognition Focuses on factors that influence numerical cognition such as language executive attention memory and spatial processing Features an innovative organization with each section providing a general overview developmental research and evidence from neurocognitive studies

Working Memory and Human Cognition John T. E. Richardson, 1996 This title compares and contrasts different conceptions of working memory This is one of the most important notions to have informed cognitive psychology over the last 20 years or so and yet it has been used in a wide variety of ways This is partly because contemporary usage of the phrase

working memory encapsulates various themes that have appeared at different points in the history of research into human memory and cognition This book presents three dominant views of working memory *Current Issues in Memory* Jan Rummel,2021-03-15 *Current Issues in Memory* is a series of edited books that reflect the state of the art areas of current and emerging interest in the psychological study of Memory For the first time this book offers a comprehensive new collection which gathers together some of the most influential chapters from the series into one essential volume Featuring 17 chapters by many of the leading researchers in the field the volume seeks to illustrate how memory research may be informative to the general public either because it speaks to questions of personal or societal importance or because it changes traditional ways of thinking within society Topics range from working memory to false fabrication and autobiographical forgetting showcasing the breadth of memory research in the public sphere With an introduction and conclusion by Professor Jan Rummel this is the ideal companion for any student or practitioner looking for an insightful overview of the most researched topics in the field

Working Memory and Language in the Modular Mind John Truscott,2022-06-16 The book explores two fundamental aspects of the human mind and their relation to one another The first is the way that information is put to use in the mind When we are doing a mental arithmetic problem for example how do we bring the relevant bits of information to mind and hold them there while carrying out the series of calculations This is working memory the subject of an enormous research literature in psychology neuroscience and a great many other disciplines Characterizing the working memory process is now a major part of efforts to understand the human mind How we characterize this process depends of course on how we characterize the human mind as a whole In particular is the mind made up of a number of distinct units each carrying out a specialized function There is considerable reason to say that it is and this modular view of the mind has become prominent in a great deal of academic work notably in cognitive neuroscience with important implications for our understanding of how working memory works But these implications have received surprisingly little consideration to this point The aim of the book is to explore this relation between working memory and modularity first in general terms and then using a specific modular view of the mind the Modular Cognition Framework The ideas are illustrated and further developed through an application to language and especially second language acquisition and use *The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties* Steve Chinn,2014-11-20 Mathematics plays an important part in every person s life so why isn t everyone good at it The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties brings together commissioned pieces by a range of hand picked influential international authors from a variety of disciplines all of whom share a high public profile More than fifty experts write about mathematics learning difficulties and disabilities from a range of perspectives and answer questions such as What are mathematics learning difficulties and disabilities What are the key skills and concepts for learning mathematics How will IT help now and in the future What is the role of language and vocabulary How should we teach mathematics By posing notoriously difficult questions such as these and studying the

answers The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties is the authoritative volume and is essential reading for academics in the field of mathematics It is an incredibly important contribution to the study of dyscalculia and mathematical difficulties in children and young adults **The Handbook of Memory Disorders**

Alan D. Baddeley, Michael D. Kopelman, Barbara A. Wilson, 2003-04-11 The eagerly awaited 2nd edition of this classic handbook is a critical thorough account of memory disorders relating to neurological processes and to developmental and acquired brain damage and presents comprehensive sections on theory assessment treatment and management of memory disorders Written by a truly international team of experts this completely updated edition offers an authoritative review of the key areas of research and development in this field Completely updated and expanded New sections and chapters reflect many of the biggest growth areas in the field in recent years such as confabulation false memory and the frontal lobes Written by an international team of experts **Working Memory and Thinking** Kenneth Gilhooly, Robert H.

Logie, 2004-08-02 Thinking and memory are inextricably linked However a divide and rule approach has led cognitive psychologists to study these two areas in relative isolation With contributions from some of the leading international researchers on working memory and thinking the present volume aims to break down the scientific divisions and foster scientific integration in the connections between these two core functions of cognition Broadly defined thinking comprises mentally driven change in current representations The processes involved in such change include application of logical rules heuristics problem solving strategies decision making planning and comprehension of complex material Memory involves the encoding retention and retrieval of information and the retention may be temporary or in a long term knowledge base Thinking cannot occur in a vacuum it relies on the long term memory base and a temporary mental workspace Despite the apparent limitations on mental workspace humans can drive a car and hold a conversation or store partial solutions while tackling other aspects of a problem So too some aspects of thinking are relatively resilient in the face of quite extensive brain damage yet other aspects are remarkably vulnerable to neuroanatomical insults Humans can solve complex problems with many alternative choice points and yet seem to be able to consider only a few hypotheses at any one time These apparent paradoxes present significant scientific challenges as to how humans can be such successful thinkers despite their very limited working memory The chapters herein represent a diversity of views as regards the nature or working memory and forms of human thinking The links between working memory and thinking are directly addressed and made explicit and in so doing this volume offers an increasingly integrated understanding of human thinking and memory **13th International**

Conference on Biomedical Engineering Chwee Teck Lim, James Goh Cho Hong, 2009-03-15 On behalf of the organizing committee of the 13 International Conference on Biomedical Engineering I extend our warmest welcome to you This series of conference began in 1983 and is jointly organized by the YLL School of Medicine and Faculty of Engineering of the National University of Singapore and the Biomedical Engineering Society Singapore First of all I want to thank Mr Lim Chuan Poh

Chairman A STAR who kindly agreed to be our Guest of Honour to give the Opening Address amidst his busy schedule I am delighted to report that the 13 ICBME has more than 600 participants from 40 countries We have received very high quality papers and inevitably we had to turn down some papers We have invited very prominent speakers and each one is an authority in their field of expertise I am grateful to each one of them for setting aside their valuable time to participate in this conference For the first time the Biomedical Engineering Society USA will be sponsoring two symposia ie Drug Delivery Systems and Systems Biology and Computational Bioengineering I am thankful to Prof Tom Skalak for his leadership in this initiative I would also like to acknowledge the contribution of Prof Takami Yamaguchi for organizing the NUS Tohoku s Global COE workshop within this conference Thanks also to Prof Fritz Bodem for organizing the symposium Space Flight Bioengineering This year s conference proceedings will be published by Springer as an IFMBE Proceedings Series Issues in Brain and Cognition Research: 2011 Edition ,2012-01-09 Issues in Brain and Cognition Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Brain and Cognition Research The editors have built Issues in Brain and Cognition Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Brain and Cognition Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Brain and Cognition Research 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Cognitive mechanisms of visual attention, working memory, emotion, and their interactions** Chaoxiong Ye,Qiang Liu,Qianru Xu,2023-08-17

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Table of Contents Visuospatial Working Memory And

1. Understanding the eBook Visuospatial Working Memory And
 - The Rise of Digital Reading Visuospatial Working Memory And
 - Advantages of eBooks Over Traditional Books
2. Identifying Visuospatial Working Memory And
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Visuospatial Working Memory And
 - User-Friendly Interface
4. Exploring eBook Recommendations from Visuospatial Working Memory And
 - Personalized Recommendations
 - Visuospatial Working Memory And User Reviews and Ratings
 - Visuospatial Working Memory And and Bestseller Lists
5. Accessing Visuospatial Working Memory And Free and Paid eBooks

- Visuospatial Working Memory And Public Domain eBooks
- Visuospatial Working Memory And eBook Subscription Services
- Visuospatial Working Memory And Budget-Friendly Options
- 6. Navigating Visuospatial Working Memory And eBook Formats
 - ePub, PDF, MOBI, and More
 - Visuospatial Working Memory And Compatibility with Devices
 - Visuospatial Working Memory And Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Visuospatial Working Memory And
 - Highlighting and Note-Taking Visuospatial Working Memory And
 - Interactive Elements Visuospatial Working Memory And
- 8. Staying Engaged with Visuospatial Working Memory And
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Visuospatial Working Memory And
- 9. Balancing eBooks and Physical Books Visuospatial Working Memory And
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Visuospatial Working Memory And
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Visuospatial Working Memory And
 - Setting Reading Goals Visuospatial Working Memory And
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Visuospatial Working Memory And
 - Fact-Checking eBook Content of Visuospatial Working Memory And
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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