

GENDER DIFFERENCES IN VISUOSPATIAL WORKING MEMORY

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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 utilized 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:

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 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 **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

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

Microsaccades and Visual-spatial Working Memory Joshua T. Gaunt, 2009 *Does Temporal/sequential Grouping Improve Visuospatial Working Memory?* Antonio Prieto, 2017 Visuospatial working memory VSWM has been traditionally defined as a system of limited capacity that allows the maintenance and manipulation of visual and spatial information However some perceptual features like Gestalt grouping could improve VSWM effectiveness In two different experiments we aimed to explore how the presence of elements grouped by color similarity affects the recognition of both grouped and non grouped items We employed a change detection task in which the individual elements were presented sequentially over the time In Experiment 1 a sequence of 6 items colored circles was presented within the same spatial location 200 ms each with an ISI of 100 ms and final retention interval of 1200 ms In Experiment 2 items followed the same temporal sequence but were randomly presented along 6 different spatial locations arranged in a circular configuration Congruent with previous studies in which the items

presentation is simultaneous the recognition of grouped items was more accurate than the recognition of non grouped items In addition the performance in the change detection task for non grouped items was influenced by the presence absence of grouped items within the same array particularly when a non grouped probe shared the color of a grouped item The results will be discussed in relation to the exogenous attentional capture exerted by perceptual grouping and its influence on the encoding maintenance and recovery of the non grouped items in visual working memory

Processes of Visuospatial Attention and Working Memory Timothy Hodgson,2019-11-19 This volume covers a broad range of current research topics addressing the function of visuospatial attention and working memory It discusses a variety of perspectives ranging from evolutionary and genetic underpinnings to neural substrates computational processes and the connection between attention and working memory Contributions address the topic at the molecular system and evolutionary scales and will be of interest to a range of audiences from animal behaviour specialists experimental psychologists to clinicians in the field of psychiatry and neurology

The Role of Visuo-spatial Working Memory in Map Learning Emanuele Coluccia,2010-08 The general aim of the present work is to study the relationship between Visuo Spatial Working Memory and map learning processes Theoretical models by Baddeley 2001 and by Thorndyke and Hayes Roth 1982 were used as frameworks for Working Memory and Spatial Knowledge respectively Possible links between the two models are discussed In order to investigate the role of Working Memory in map learning the methodology of the dual task is applied in four experiments While learning a map participants were asked either to perform a secondary task or not control condition After the map learning phase they were asked to solve three different map knowledge tasks Landmark Positioning Pointing and Route Finding Map learning was contrasted with a verbal learning task and two different types of visuospatial interference secondary tasks 4 keys and 9 keys spatial tapping were contrasted with a verbal interference secondary task articulatory suppression Overall results showed how some aspects of Visuospatial Working Memory are involved in map learning processes depending on which aspect of Spatial Knowledge is considered

Nature of Representations in Spatial Working Memory Aysecan Zeynep Boduroglu,2005

Visuospatial Cognition, Movement, and the Mathematic Achievement of Students Courtney M. Hilton,2018 The study investigated the predictive relations of language and cognitive variables and three domains of mathematics achievement in grade levels spanning first to undergraduate students The research is particularly interested in the moderating effects of grade level on the relations of visuospatial working memory and mathematics The research is guided by Baddeley s model of working memory Baddeley and Hitch 1974 1986 1996 2000 Logie s two part visuo sketchpad 1995 and the growing body of research investigating the dissociative properties of working memory A sample of 2 375 participants was drawn from the Woodcock Johnson Fourth Edition standardization sample The participants were administered assessments in the areas of oral language mathematics verbal working memory ability and visuospatial ability A theoretical visuospatial working memory variable was created from the visuospatial ability

assessments The results of four hierarchical regression analyses revealed oral language verbal working memory and visual working memory are significant predictors of mathematics achievement The tests of moderating effects results showed grade level moderated the relations between visuospatial working memory and mathematics achievement **Measuring**

Visuospatial Working Memory Using Path Visualization, 2004 The term visuospatial working memory VSWM refers to a set of cognitive processes that people use to visualize spatial configurations VSWM is involved in most spatial solving It may be crucial for Uninhabited Aerial Vehicle operators because they must hold in memory spatial information that would normally be visible from a panoramic cockpit view This paper describes a new technique called Path Visualization PV for measuring VSWM The PV paradigm yields accuracy and response time data that can be used to quantify various aspects of human spatial visualization *Visuospatial Processing for Education in Health and Natural Sciences* Juan C.

Castro-Alonso, 2019-08-05 Visuospatial processing is key to learn and perform professionally in the domains of health and natural sciences As such there is accumulating research showing the importance of visuospatial processing for education in diverse health sciences e g medicine anatomy surgery and in many natural sciences e g biology chemistry physics geology In general visuospatial processing is treated separately as a spatial ability and b working memory with visuospatial stimuli This book attempts to link these two research perspectives and present visuospatial processing as the cognitive activity of two components of working memory mostly the visuospatial sketch pad and also the central executive which allows to perform in both spatial ability and working memory tasks Focusing on university education in the fields of health sciences and natural sciences the chapters in this book describe the abilities of mental rotation mental folding spatial working memory visual working memory among others and how different variables affect them Some of these variables thoroughly addressed in the book are sex gender visualizations interactivity cognitive load and embodiment The book concludes with a chapter presenting VAR a battery of computer based tests to measure different tasks entailing visuospatial processing With contributions by top educational psychologists from around the globe this book will be of interest to a broad array of readers across the disciplines The Handbook of Memory Disorders Alan D. Baddeley, Michael D. Kopelman, Barbara A. Wilson, 2002-11-22

Disorders of memory are among the most frequent and disabling symptoms of a wide range of clinical disorders Leading scientists and clinicians review the theoretical concepts and research which contribute to an understanding of this field

Visuospatial Working Memory and the Effects of Ageing Annaliese Grace, 2008 **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

Behavioral Neurology and Neuropsychology Todd E. Feinberg, Martha J. Farah, 1997 This comprehensive work reflects the state of the art in both the clinical and theoretical aspects of brain behaviour studies with an emphasis on the clinical It features coverage of disorders of perception attention and awareness frontal collosal and subcortical syndromes delirium and dementia emotional disorders and neurobehavioural disorders in children *Working Memory in Psychosis-prone Individuals* Kathleen A. Tallent, 2005

Handbook of Child Psychology, Cognition, Perception, and Language William Damon, Richard M. Lerner, 2006-03-31 Publisher Description [Does Growth in Working Memory Predict Growth in Crystallized Intelligence in Children with Reading Disabilities?](#) Olga Y. Jerman, 2007

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