

APPLICATION FOR ETHICAL APPROVAL

In order for research to result in benefit and minimise risk of harm, it must be conducted ethically. A researcher may not be covered by the University's insurance if ethical approval has not been obtained prior to commencement.

The University follows the OECD Frascati manual definition of **research activity**: "creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications". As such this covers activities undertaken by members of staff, postgraduate research students, and both taught postgraduate and undergraduate students working on dissertations/projects.

The individual undertaking the research activity is known as the "principal researcher".

Ethical approval is not required for routine audits, performance reviews, quality assurance studies, testing within normal educational requirements, and literary or artistic criticism.

Please read the notes for guidance before completing ALL sections of the form.

This form must be completed and approved prior to undertaking any research activity. Please see Checklist for details of process for different categories of application.

SECTION A: About You (Principal Researcher)

1	Full Name:	XXXXXXX			
2	Tick all boxes that apply:	Member of staff:	☐	Honorary research fellow:	☐
	Undergraduate Student	☒	Taught Postgraduate Student	☐	Postgraduate Research Student
3	Institute/Academic Discipline/Centre:	Yr Athrofa: Psychology and Counselling			
4	Campus:	IQ, SA1 Campus, Swansea			
5	E-mail address:	XXXXXXXXX@student.uwtsd.ac.uk			
6	Contact Telephone Number:				
For students:					
7	Student Number:	XXXXXXXXXX			
8	Programme of Study:	BSc Psychology and Counselling			
9	Director of Studies/Supervisor:	Dr Kate Williams			

SECTION B: Approval for Research Activity

1	Has the research activity received approval in principle? (please check the Guidance Notes as to the appropriate approval process for different levels of research by different categories of individual)	YES	☒	NO	☐
					Date
2	If Yes, please indicate source of approval (and date where known): Approval in principle must be obtained from the relevant source prior to seeking ethical approval	Research Degrees Committee	☐		
Institute Research Committee		☐			
Other (write in) Dr Kate William (Dissertation supervisor)		☒	16th August 2021		

SECTION C: Internal and External Ethical Guidance Materials

	Please list the core ethical guidance documents that have been referred to during the completion of this form (including any discipline-specific codes of research ethics, location-specific codes of research ethics, and also any specific ethical guidance relating to the proposed methodology). Please tick to confirm that your research proposal adheres to these codes and guidelines. You may add rows to this table if needed.
1	UWTSD Research Ethics & Integrity Code of Practice ☒
2	UWTSD Research Data Management Policy ☒
3	UWTSD Student Code of Conduct ☒
4	UWTSD Data Protection and Storage Protocol ☒
5	BPS Code of Human Research Ethics (April 2021) ☒
6	BPS Code of Ethics and Conduct (July 2018) ☒
7	BPS Data Protection Regulation – Guidance for Researchers (2018) ☒
8	BPS Conducting Research with Human participants during Covid-19 ☒
9	BPS Ethics Guidelines for Internet-mediated Research (June 2021) ☒

SECTION D: External Collaborative Research Activity

If there are external collaborators then you should gain consent from the contact persons to share their personal data with the university. If there are no external collaborators then leave this section blank and continue to section E.

1	Institution					
2	Contact person name					
3	Contact person e-mail address					
4	Is your research externally funded?	YES	☐	NO	☐	
5	Are you in receipt of a KESS scholarship?	YES	☐	NO	☐	
6	Are you specifically employed to undertake this research in either a paid or voluntary capacity?	Voluntary	YES	☐	NO	☐
7		Employed	YES	☐	NO	☐

8	Is the research being undertaken within an existing UWTSD Athrofa Professional Learning Partnership (APLP)?	If YES then the permission question below does not need to be answered.	YES	☐	NO	☐
9	Has permission to undertake the research has been provided by the partner organisation?	(If YES attach copy) If NO the application cannot continue	YES	☐	NO	☐

Where research activity is carried out in collaboration with an external organisation

10	Does this organisation have its own ethics approval system?	YES	☐	NO	☐
	If Yes, please attach a copy of any final approval (or interim approval) from the organisation (this may be a copy of an email if appropriate).				

SECTION E: Details of Research Activity

1	Indicative title:	Do greater detailed narrative items in a misinformation paradigm cue attention, resulting in more omission for less detailed items within a student sample.		
2	Proposed start date:	November 2021	Proposed end date:	May 2022
	Introduction to the Research (maximum 300 words per section) Ensure that you write for a <u>Non-Specialist Audience</u> when outlining your response to the points below: <i>Purpose of Research Activity</i> <i>Proposed Research Question</i> <i>Aims of Research Activity</i> <i>Objectives of Research Activity</i> Demonstrate, briefly, how <u>Existing Research</u> has informed the proposed activity and explain <i>What the research activity will add to the body of knowledge</i> <i>How it addresses an area of importance.</i>			
3	Purpose of Research Activity The purpose of this study is for a level six dissertation, it will entail investigating whether the level of detail within the narrative phase of a misinformation paradigm, affects the number of omissions for scene items, due to cueing attentional resources away from items that are not mentioned in the narrative. Since Loftus, Miller and Burns (1978) seminal study demonstrated that individuals incorporate misleading information into their memory of an event, there has been a wealth of studies into how misinformation affects an individual's recollection of events both for visual (Higham et al. 2017; Pereverseff et al., 2020) and auditory information (Anglada-Tort et al., 2019). However, few studies report participants omitted answers (i.e., answers that should be provided but are left out). One recent study by Smith et al., (2019), looking into the effect of stress on encoding in older adults, found that participants left more answers blank for non-detailed items compered to detailed items that were afforded more detail narratives in a misinformation paradigm. They suggest these omissions of non-detailed items, could have resulted due to memory stereotype threat inducing stress on the participant from having a young researcher conduct the study. This is consistent with research by Thomas et al., (2020). However, this outcome is specific to older adults, and an alternative explanation within source monitoring framework (Johonson et al. 1993), suggests			

	confidence in memory recall is reliant on source cues being available at recall or retrieval fluency being of a sufficient level. As attention is a finite resource, any cueing effects has the potential to increase retrieval fluency or increase the source cue level for an item, this may decrease participants confidence in the source of their recollection and increase the likely hood of omitting answers. This proposed research aims to investigate if the level of detail within the narrative of a misinformation paradigm cues attention for items presented during an image encoding task and whether this increases the number of omissions for other items in a free recall memory test and influences memory accuracy and source monitoring when questioned about specific items from the image encoding task. Reference list Anglada-Tort, M., Baker, T., & Müllensiefen, D. (2019). False memories in music listening: Exploring the misinformation effect and individual difference factors in auditory memory. <i>Memory</i>, 27(5), 612-627. https://doi.org/10.1080/09658211.2018.1545858 Higham, P. A., Blank, H., & Luna, K. (2017). Effects of postwarning specificity on memory performance and confidence in the eyewitness misinformation paradigm. <i>Journal of Experimental Psychology: Applied</i>, 23(4), 417. https://psycnet.apa.org/doi/10.1037/xap0000140 Huff, M. J., Weinsheimer, C. C., & Bodner, G. E. (2016). Reducing the misinformation effect through initial testing: Take two tests and recall me in the morning?. <i>Applied Cognitive Psychology</i>, 30(1), 61-69. https://doi.org/10.1002/acp.3167 Johnson, M. K., Hashtroudi, S., & Lindsay, D. S. (1993). Source monitoring. <i>Psychological Bulletin</i>, 114(1), 3. https://doi.org/10.1080/13825585.2018.1524438 Loftus, E. F., Miller, D. G., & Burns, H. J. (1978). Semantic integration of verbal information into a visual memory. <i>Journal of experimental psychology: Human learning and memory</i>, 4(1), 19. https://psycnet.apa.org/doi/10.1037/0278-7393.4.1.19 Pereverseff, R. S., Bodner, G. E., & Huff, M. J. (2020). Protective effects of testing across misinformation formats in the household scene paradigm. <i>Quarterly Journal of Experimental Psychology</i>, 73(3), 425-441. https://doi.org/10.1177%2F1747021819881948 Smith, A. M., Dijkstra, K., Gordon, L. T., Romero, L. M., & Thomas, A. K. (2019). An investigation into the impact of acute stress on encoding in older adults. <i>Aging, Neuropsychology, and Cognition</i>, 26(5), 749-766. Thomas, A. K., Smith, A. M., & Mazerolle, M. (2020). The unexpected relationship between retrieval demands and memory performance when older adults are faced with age-related stereotypes. <i>The Journals of Gerontology: Series B</i>, 75(2), 241-250. https://doi.org/10.1093/geronb/gby031
4	Research Question 1. Are participants susceptible to misinformation after reading a narrative containing misleading information about items presented within a visual scene? 2. Does the level of detail provided within written narratives describing visual scenes influence the level of susceptibility to misinformation? 3. Does the level of detail provided within written narratives describing visual scenes influence the number of items participants are able to correctly free recall from the visual scenes? 4. Does the level of detail provided within written narratives describing visual scenes influence the number of omitted answers when participants are questioned on specific items from the visual scene? 5. Does the level of detail provided within written narratives describing visual scenes and misinformation influence source monitoring when participants are questioned on specific items from the visual scene?
5	Aims of Research Activity The aim of this research is to investigate the following: • Participants' susceptibility to misinformation when level of detail within narratives differs. • That detailed narratives will be afforded more attention than non-detailed narratives. • The source monitoring for detailed and non-detailed narratives. • Participants who read detailed narratives, will omit more answers than participants who read non-detailed narratives.

6	Objectives of Research Activity The objective of this study is to examine, if more detail narrative in a misinformation paradigm, affects the numbers of error of omission, by cueing attention away from items that are not present in the narrative, reducing an individual's confidence in the origin of their memory. With questions concerning items that are not present in the narrative being a critical part of most misinformation paradigms, any effect on error of omission would need to be taken in to account in future studies and may also go some way to explaining the contradictory results in research found thus far. Additionally, one possible practical implication maybe in the amount of detail used when appealing for eyewitnesses.
	Proposed methods (maximum 600 words) Provide a brief summary of all the methods that may be used in the research activity, making it clear what specific techniques may be used. If methods other than those listed in this section are deemed appropriate later, additional ethical approval for those methods will be needed. You do not need to justify the methods here, but should instead describe how you intend to collect the data necessary for you to complete your project.
7	The research will be conducted within the psychology labs, situated at the SA1, Swansea campus. Participants will be recruited through the University of Wales Trinity Saint David (UWTSD) Psychology Department's Experiment Management System (EMS). Eligible students can volunteer to take part in the study. Participants will then be asked to attend the labs waiting area, at the allotted time they have chosen. Participants will only be known to the researcher by their unique EMS Identity Code. The researcher will greet the participants and escort them into the lab. The participants will then be presented with an information sheet (see appendix 1) which will briefly outline what the study will entail. This will include the approximate length of time the study will take, the different phases that are involved in the study (encoding, filler task, narrative and memory recall) and the contact details of the researcher and the dissertation supervisor. Participants will then be asked to read and tick a consent form (see appendix 2) if they wish to proceed in taking part in the study. Participants will be assigned to one of two groups (detailed group or non-detailed group). Participants will then be asked to use the computer to complete the study using Qualtrics and SuperLab. The participants will be presented with a demographic questionnaire (see appendix 3), which will ask participants to provide information relating to their age and gender. Following this, the participants will be asked to complete the encoding phase. This will consist of the same six images of household scenes (please see appendix 4) adapted from Huff et al. (2016) for both groups. Each image will appear individually in the centre of the computer screen for 15 seconds, each image will also be preceded by a blank screen of 1 second, in addition each image will appear in a randomised order for each participant. Participants will be instructed to try and memorise as much detail as they can from each image. The participants will then be asked to complete a filler task, for 1 minute consisting of a series of mazes (see appendix 5). Following the filler task, participants will then be asked to complete the narrative phase. This will consist of four sets of narratives for each image (two for each group, see appendix 6), with each set containing six narrative conditions (one for each image). These narratives will be presented in a randomised order for each participant. Each narrative will consist of six sentences subdivided into three blocks (one misleading, one consistent, one neutral), and each block will be displayed individually in order to record reading times. The participants will then be asked to complete a second round of filler task for 1 minute followed by a memory recall task. This will consist of a series of questions for each image from the encoding phase (see appendix 7). For each image the participants will first be asked to list all the items they can remember from the images. They will then be asked six questions relating to specific item details from each image (colour or amount), in addition, each item detail question will be immediately followed with a source monitoring question asking participants to indicate where they remember the information from, either the image, narrative or guess/don't know. Participants will also be informed that if they do not know the answer to a question, that they can leave it blank. Data will be collected for general recall, memory of item details, source monitoring, and omitted answers.

	Participants will then be debriefed by the researcher and presented with a debrief sheet (see appendix 8). This will inform them that there was an element of deception involved within the study (the misinformation narratives) and the study's true aims. The researcher will offer the participant the opportunity to discuss any concerns about the study before reconfirming that the participant still consents to their data being used. Lastly the participant will be thanked for taking part.
	Location of research activity Identify all locations where research activity will take place.
8	All research activities that are required for this study, will take place within the Psychology Labs at the Swansea SA1 campus.
	Research activity outside of the UK If research activity will take place overseas, you are responsible for ensuring that local ethical considerations are complied with and that the relevant permissions are sought. Specify any local guidelines (e.g. from local professional associations/learned societies/universities) that exist and whether these involve any ethical stipulations beyond those usual in the UK (provide details of any licenses or permissions required). Also specify whether there are any specific ethical issues raised by the local context in which the research activity is taking place, for example, particular cultural and/or legal sensitivities or vulnerabilities of participants. If you live in the country where you will do the research, then please state this.
9	N/A

10	Use of documentation not in the public domain: Are any documents NOT publicly available?	NO	☒
		YES	☐
11	If Yes, please provide details here of how you will gain access to specific documentation that is not in the public domain and that this is in accordance with the current data protection law of the country in question and that of England and Wales.		

	Does your research relate to one or more of the seven aims of the Well-being of Future Generations (Wales) Act 2015?	YES	NO
12	A prosperous Wales	☐	☒
13	A resilient Wales	☐	☒
14	A healthier Wales	☐	☒
15	A more equal Wales	☐	☒
16	A Wales of cohesive communities	☐	☒
17	A Wales of vibrant culture and thriving Welsh language	☐	☒
18	A globally responsible Wales	☐	☒
19	If YES to any of the above, please give details:		
	N/A		

SECTION F: Scope of Research Activity

	Will the research activity include:	YES	NO
1	Use of a questionnaire or similar research instrument?	☒	☐

2	Use of interviews?	☐	☒
3	Use of focus groups?	☐	☒
4	Use of participant diaries?	☐	☒
5	Use of video or audio recording?	☐	☒
6	Use of computer-generated log files?	☐	☒
7	Participant observation with their knowledge?	☐	☒
8	Participant observation without their knowledge?	☐	☒
9	Access to personal or confidential information without the participants' specific consent?	☐	☒
10	Administration of any questions, test stimuli, presentation that may be experienced as physically, mentally or emotionally harmful / offensive?	☐	☒
11	Performance of any acts which may cause embarrassment or affect self-esteem?	☐	☒
12	Investigation of participants involved in illegal activities?	☐	☒
13	Use of procedures that involve deception?	☒	☐
14	Administration of any substance, agent or placebo?	☐	☒
15	Working with live vertebrate animals?	☐	☒
16	Procedures that may have a negative impact on the environment?	☐	☒
17	Other primary data collection methods. Please indicate the type of data collection method(s) below.	☒	☐
	Details of any other primary data collection method: This study will use a household scene paradigm adapted from Huff et al. (2016). This will be constructed using SuperLab and consist of four phases (image phase, filler task, narrative phase and a recall phase). Data will be collected on the amount of time spent reading each narrative block, with SuperLab be used to record how long each participant take to read each block in Ms. The amount of correctly recalled items for each image, answers concerning item details (colour, amount) for each image and source monitoring information for answered item detail questions. The number of omitted answers will also be recorded.		

If NO to every question, then the research activity is (ethically) low risk and **may** be exempt from **some** of the following sections (please refer to Guidance Notes).

If YES to any question, then no research activity should be undertaken until full ethical approval has been obtained.

SECTION G: Intended Participants

If there are no participants then do not complete this section, but go directly to section H.

	Who are the intended participants:	YES	NO
1	Students or staff at the University?	☒	☐
2	Adults (over the age of 18 and competent to give consent)?	☒	☐
3	Vulnerable adults?	☐	☒
4	Children and Young People under the age of 18? (Consent from Parent, Carer or Guardian will be required)	☐	☒

5	Prisoners?	☐	☒
6	Young offenders?	☐	☒
7	Those who could be considered to have a particularly dependent relationship with the investigator or a gatekeeper?	☐	☒
8	People engaged in illegal activities?	☐	☒
9	Others. Please indicate the participants below, and specifically any group who may be unable to give consent.	☐	☒
	Details of any other participant groups:		

Participant numbers and source Provide an estimate of the expected number of participants. How will you identify participants and how will they be recruited?		
10	How many participants are expected?	This study will require 88 participants, this is constant with previous misinformation studies. In addition, G*Power 3 (Faul et al., 2007), was used to conduct an analysis, the results of which suggests, that a sample size of N= 44 per-group in order to achieve 95% power to detect effect, using an effect size of Cohen's d = .79, a significance level of $\alpha = .05$ and two between subject groups.
11	Who will the participants be?	Participants will be adults over the age of 18, drawn from the student population, studying within the Psychology department at UWTSD.
12	How will you identify the participants?	Participants will be recruited through the department's Experimental Management System (EMS), in exchange for EMS credits. Each participant will sign-up and be identified through their unique EMS ID code. A different unique ID code will then be allocated to participant data.

Information for participants:		YES	NO	N/A
13	Will you describe the main research procedures to participants in advance, so that they are informed about what to expect?	☒	☐	☐
14	Will you tell participants that their participation is voluntary?	☒	☐	☐
15	Will you obtain written consent for participation?	☐	☒	☐
16	Will you explain to participants that refusal to participate in the research will not affect their treatment or education (if relevant)?	☒	☐	☐
17	If the research is observational, will you ask participants for their consent to being observed?	☐	☐	☒
18	Will you tell participants that they may withdraw from the research at any time and for any reason?	☒	☐	☐
19	With questionnaires, will you give participants the option of omitting questions they do not want to answer?	☒	☐	☐
20	Will you tell participants that their data will be treated with full confidentiality and that, if published, it will not be identifiable as theirs?	☒	☐	☐
21	Will you debrief participants at the end of their participation, in a way appropriate to the type of research undertaken?	☒	☐	☐
22	If NO to any of above questions, please give an explanation			

	The study will not be obtaining written consent from the participants. The reason for this comes from the need to minimise interaction between the researcher and the participants. Therefore, to reduce the risk of COVID-19 transmission, paper consent forms will not be used in this study. Participants will be asked to provide their consent electronically, before being able to proceed with the study.
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	Information for participants:	YES	NO	N/A
24	Will participants be paid?	☐	☒	☐
25	Is specialist electrical or other equipment to be used with participants?	☐	☒	☐
26	Are there any financial or other interests to the investigator or University arising from this study?	☐	☒	☐
27	Will the research activity involve deliberately misleading participants in any way, or the partial or full concealment of the specific study aims?	☒	☐	☐
28	If YES to any question, please provide full details			
	This study will require the participants to both receive misleading information and the concealment of the specific study aims. During the narrative phase, participants will be asked to read two sentences that presents misleading information for each of the six images. This will involve details of items that are not present within the image. It is also necessary to withhold the fact that the study is using a form of misinformation paradigm, as research (Echterhoff & Hirst, 2005) has found that pre warning can lead to a reduction in the misinformation effect. This study will follow BPS guidelines regarding the use of deception, that include that all elements will be designed to minimise the risk of harm/distress to the participant and are only the minimum amount necessary, to meet the methodological needs of the study.			

SECTION H: Anticipated Risks

Outline any anticipated risks that may adversely affect any of the participants, the researchers and/or the University, and the steps that will be taken to address them. If you have completed a full risk assessment (for example as required by a laboratory, or external research collaborator) you may append that to this form.					
1	Full risk assessment completed and appended? <table border="1" style="float: right;"> <tr> <td>Yes</td> <td>☐</td> </tr> <tr> <td>No</td> <td>☒</td> </tr> </table>	Yes	☐	No	☒
Yes	☐				
No	☒				
2	Risks to participants For example: sector-specific health & safety, emotional distress, financial disclosure, physical harm, transfer of personal data, sensitive organisational information				
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Risk to participants: 1. There is a risk that the element of deception that is involved in this study could cause participants to feel they have been unfairly deceived, this in turn could lead to negative emotional responses (e.g., Anger) for the participants. </td> <td style="width: 50%; vertical-align: top;"> How you will mitigate the risk to participants: 1. In line with BPS Code of Human Research Ethics (2021), the researcher will provide a debrief sheet to the participants upon the completion of the study, that will detail the true purpose of the research aims, how deception was used and in what amounts and the reason for why it was required and reminding the participants of their right to withdraw from the study. The researcher will also allow the participant the opportunity to ask questions about the study, including the use of deception. The participant will also be provided with contact information of both the </td> </tr> </table>	Risk to participants: 1. There is a risk that the element of deception that is involved in this study could cause participants to feel they have been unfairly deceived, this in turn could lead to negative emotional responses (e.g., Anger) for the participants.	How you will mitigate the risk to participants: 1. In line with BPS Code of Human Research Ethics (2021), the researcher will provide a debrief sheet to the participants upon the completion of the study, that will detail the true purpose of the research aims, how deception was used and in what amounts and the reason for why it was required and reminding the participants of their right to withdraw from the study. The researcher will also allow the participant the opportunity to ask questions about the study, including the use of deception. The participant will also be provided with contact information of both the		
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	2. Although the images used for this study do not contain materials of an offensive nature, there is the potential that participant may feel a level of frustration during the recall phase. 3. Participants will be asked to complete the study within the psychology labs, at the SA1 campus, there is a small risk to participants being exposed to Covid-19 and/or other pathogens. 4. Participant may also have concerns regarding the use and safe storage of their Data collected during this study.	researcher and the dissertation supervisor and given the option to remove their data from the study before leaving the lab if they are not happy to submit their data upon finding out about the deception. 2. This study will comply with both BPS Code of Human Research Ethics (2021), and UWTSD Research Ethics & Integrity Code of Practice guidelines in regard to participants being informed of what the study will involve prior to taking part. Therefore, any participant that feels that they would be uncomfortable taking part in a study that contains a memory test, has the option to choose not to proceed. Furthermore, participants will be made aware that they have the right to withdraw from the study at any time without any penalty. 3. All UWTSD and government guidelines in regard to Covid-19 safety will be followed by the researcher and participants. This will include the sterilising of the lab area and any equipment by the researcher between participants, ensuring masks are worn (unless exempt), leaving the participant on their own in the lab booth to complete the study, and reporting any COVID related issue to the labs manager. 4. The researcher will provide the participants an explanation of how their data will be handled confidently and that their data will be anonymised within the information sheet for the study. The researcher will also explain the process involved in the collection, handling and storage of their data if the participants require more detailed information. The participant will also have the chance to remove their data, at any time up to the completion of the study, at which time their data will be anonymised and the researcher may not be able to distinguish between participants data.
3	If research activity may include sensitive, embarrassing or upsetting topics (e.g. sexual activity, drug use) or issues likely to disclose information requiring further action (e.g. criminal activity), give details of the procedures to deal with these issues, including any support/advice (e.g. helpline numbers) to be offered to participants. Note that where applicable, consent procedures should make it clear that if something potentially or actually illegal is discovered in the course of a project, it may need to be disclosed to the proper authorities	

	N/A	
4	Risks to the investigator For example: personal health & safety, physical harm, emotional distress, risk of accusation of harm/impropriety, conflict of interest	
	Risk to the investigator: 1. There is the potential for the researcher being accused of harm/impropriety if the participants feel unhappy about something that happens during the study. This is particularly relevant to the study as it contains elements of deception. 2. As the participants will be provided with the researcher's email, there is the potential that the researcher could receive negative emails from participants. 3. Participants will be asked to complete the study within the psychology labs, at the SA1 campus, there is a small risk that the researcher being exposed to Covid-19 and/or other pathogens. 4. There is the possibility that the researcher maybe asked for information, outside their ability as an undergraduate student. 5. There is the possibility of risk to the researcher's personal wellbeing, while in the lab area, should a participant become disgruntled/hostile, as a result of being deceived/receiving misinformation during the study.	<i>How you will mitigate the risk to the investigator:</i> 1. The researcher will follow all BPS Code of Human Research Ethics (2021) UWTSD Research Ethics & Integrity Code of Practice. By conducting themselves in a professional manner that ensures the dignity and rights of the participant. Providing the participant with sufficient information so they can decide if they wish to participate in the study in an informed manner. Designing the study to only contain the minimum amount of deception necessary that the methodological design of the study requires. Providing all participants with a debrief informing them of the deception and the reasons for including it at the end of the study. 2. The participants will only be provided with the researchers university student email address and no personal contact details will be used. In the event of the researcher receiving any unwelcome correspondence from participants, this will be reported to the dissertation supervisor immediately. The researcher and all participants will also be expected to behave in a professional manner and abide by the UWTSD Student Code of Conduct. 3. All UWTSD guidelines in regard to Covid-19 safety will be followed by the researcher and participants. This will include the sterilising of the lab area and any equipment, by the researcher between participants. 4. In the event that the researcher receives a question, that is beyond their knowledge base, this will be passed on to the dissertation supervisor. 5. Mitigation here would include only collecting data in the labs during usual university working hours (Mon-Fri 9am-5pm) where a lab manager will be available. If any participant becomes hostile, the study will be immediately terminated, and the researcher will remove themselves from the situation

		and report to the lab manager and/or supervisor.
5	University/institutional risks For example: adverse publicity, financial loss, data protection	
	Risk to the University: 1. There is a potential risk to the UWTSD's reputation and integrity if the researcher and participants do not comply to ethical codes and research protocols. With the elements of deception necessary for this study, poses an additional risk to the universities reputation if the participants feel that the level of deception is not appropriate for the study. 2. There is a potential that data maybe exposed, leaked or used in a way that is unintended by the study.	<i>How you will mitigate the risk to the University:</i> 1. The researcher will adhere to the BPS Code of Ethics and Conduct (2018) and the University Research Ethics & Integrity Code of Practice, throughout every stage of the proposed study in order to minimise the potential of any risk arising. Any element of deception used will be the minimum amount required for the study and will be agreed with the dissertation supervisor beforehand. All participants will be made aware of the use and type of deception at the end of the study. The participants will also be given the opportunity to discuss, with the researcher any element of the study before giving final consent to use their data. The researcher will behave in professional and respectful manner throughout the study, in compliance with UWTSD Student Code of Conduct. 2. All data will be collected and stored in accordance with UWTSD Research Data Management Policy. The data collected will only be used for the intended purpose of this study, in compliance with the BPS Code of Human Research Ethics and the UWTSD Research Ethics & Integrity Code of Practice. The data collected by this study will be stored in an anonymised form within password protected files, in order to further minimise the risk to the university.
6	Environmental risks For example: accidental spillage of pollutants, damage to local ecosystems	
	Risk to the environment: 1. With the research for this study being conducted within the Psychology labs, situated at the SA1 IQ campus, there is a small risk to the wider environment.	<i>How you will mitigate the risk to environment:</i> 1. The researcher will follow all procedures for cleaning the labs between each participant and be respectful towards the labs and equipment within. In order to minimise the use of paper materials, only debrief forms will be printed for each participant as needed.
Disclosure and Barring Service		

	If the research activity involves children or vulnerable adults, a Disclosure and Barring Service (DBS) certificate must be obtained before any contact with such participants.	YES	NO	N/A
7	Does your research require you to hold a current DBS Certificate?	☐	☒	☐
8	If YES, please give the certificate number. If the certificate number is not available please write "Pending"; in this case any ethical approval will be subject to providing the appropriate certificate number.			

SECTION I: Feedback, Consent and Confidentiality

1	Feedback What de-briefing and feedback will be provided to participants, how will this be done and when?
	Participants will be provided with a debrief sheet at the end of the study. This will include the purposes and aims of the study, the fact that it involved misinformation, with details of the type and amount of misinformation involved, and it will reiterate the right to withdraw. Participants will also have the opportunity to ask the researcher any questions and raise any concerns from the study. The participant will also be provided with the contact email of both the researcher and research supervisor should they require any further information at a later date. All debriefing materials and procedures involving deception will conform to BPS ethical guidelines.
2	Informed consent Describe the arrangements to inform potential participants, before providing consent, of what is involved in participating. Describe the arrangements for participants to provide full consent before data collection begins. If gaining consent in this way is inappropriate, explain how consent will be obtained and recorded in accordance with prevailing data protection legislation.
	Participants will be asked to read an information sheet (please see appendix 1), explaining what the study will involve. They will then be asked to fill in a consent form (please see appendix 8) before taking part in the study. However due to the nature of this study involving an element of deception, involving both misleading information and not providing a full description of the study's aims, full informed consent at the outset of the study is not possible. Therefore, the researcher will ask participants to confirm their consent for their data to be used after they have received the study debriefing and are aware of the full aims of the study and what misinformation was used by once again clicking a box on screen to confirm. If the participant wishes to withdraw consent at this point all data generated by the participant will be deleted. All information, consent, and debrief forms will follow BPS (2021) ethical guidelines.
3	Confidentiality / Anonymity Set out how anonymity of participants and confidentiality will be ensured in any outputs. If anonymity is not being offered, explain why this is the case.
	Participants will only be identified to the researcher by their unique EMS Identity Code. All raw data will be anonymised with the participants EMS Identity Code being replaced by a unique participant ID number. Only Anonymised data sets will be used for the analysis and reporting of results. This data is then kept within a password protected file which complies with the UWTS Data Protection and Storage Protocol. Any data generated by participants throughout the study will be kept confidential; the researcher will not discuss the data or the participants in the study or use the data for any other purposes.

SECTION J: Data Protection and Storage

	Does the research activity involve personal data (as defined by the General Data Protection Regulation 2016 "GDPR" and the Data Protection Act 2018 "DPA")?	YES	NO
1	"Personal data" means any information relating to an identified or identifiable natural person ('data subject'). An identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or	☒	☐

	<i>to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person. Any video or audio recordings of participants is considered to be personal data.</i>		
	If YES, provide a description of the data and explain why this data needs to be collected:		
2	This study will collect data in regard to participants' age and gender, this is for the purpose of providing descriptive statistics that form part of the standard reporting measures in psychology research. Upon completion of data collection, a means age score will be calculated and aggregate data on gender compiled for this purpose.		
	Does it involve special category data (as defined by the GDPR)?	YES	NO
3	"Special category data" means sensitive personal data consisting of information as to the data subjects' – (a) racial or ethnic origin, (b) political opinions, (c) religious beliefs or other beliefs of a similar nature, (d) membership of a trade union (within the meaning of the Trade Union and Labour Relations (Consolidation) Act 1992), (e) physical or mental health or condition, (f) sexual life, (g) genetics, (h) biometric data (as used for ID purposes),	☐	☒
	If YES, provide a description of the special category data and explain why this data needs to be collected:		
4	N/A		

	Will data from the research activity (collected data, drafts of the thesis, or materials for publication) be stored in any of the following ways?	YES	NO
5	Manual files (i.e. in paper form)?	☐	☒
6	University computers?	☒	☐
7	Private company computers?	☐	☒
8	Home or other personal computers?	☐	☒
9	Laptop computers/ CDs/ Portable disk-drives/ memory sticks?	☒	☐
10	"Cloud" storage or websites?	☒	☐
11	Other – specify:	☐	☒
12	For all stored data, explain the measures in place to ensure the security of the data collected, data confidentiality, including details of backup procedures, password protection, encryption, anonymisation and pseudonymisation:		
	Raw data will be stored electronically, with Qualtrics data being stored in the researcher's university Qualtrics account under password protection. SuperLab data will be stored on the Lab computers and only be accessible to the researcher through a password protected university account. Qualtrics data will be downloaded in an anonymised format, to a password protected file on the researcher's personal laptop. Any SuperLab collected data will be anonymised and transferred from the lab computers to the researcher's personal laptop, on an encrypted pen drive. Once transfer of any data using an encrypted pen drive is complete, the data on the memory stick will be immediately deleted. All Data collected through Qualtrics and SuperLab will only be linked via unique participant ID codes.		

	Data Protection		
	Will the research activity involve any of the following activities:	YES	NO
13	Electronic transfer of data in any form?	☒	☐

14	Sharing of data with others at the University outside of the immediate research team?	☐	☐
15	Sharing of data with other organisations?	☐	☒
16	Export of data outside the UK or importing of data from outside the UK?	☐	☒
17	Use of personal addresses, postcodes, faxes, emails or telephone numbers?	☐	☒
18	Publication of data that might allow identification of individuals?	☐	☒
19	Use of data management system?	☐	☒
20	Data archiving?	☐	☒
21	If YES to any question, please provide full details, explaining how this will be conducted in accordance with the GDPR and Data Protection Act (2018) (and any international equivalents, where appropriate):		
	Data will be gathered using SuperLab on the computers situated at the psychology labs at the SA1 campus. Qualtrics collected data will be anonymised and downloaded into a password protected file on the researchers personal computer. While Data collected using SuperLab will be anonymised and transferred via an encrypted memory stick from the Lab computers to the researcher's password protected laptop. Following the transfer of data on the encrypted memory stick, this will be immediately deleted. Final dissertation material will be shared with UWTSD academic staff in the form of a written report and presentation of work.		
22	List all who will have access to the data generated by the research activity:		
	XXXXXX (researcher) and Dr Kate William (Dissertation supervisor). There is also a possibility that examiners may also request access to the data.		
23	List who will have control of, and act as custodian(s) for, data generated by the research activity:		
	XXXXXX (researcher) Dr Kate William (Dissertation supervisor).		
24	Give details of data storage arrangements, including security measures in place to protect the data, where data will be stored, how long for, and in what form. Will data be archived – if so how and if not why not.		
	This study will collect Data using both Qualtrics and SuperLab. Data collected using Qualtrics will be stored in an anonymised format and only accessible through the researcher's password protected university Qualtrics account. SuperLab collected Data will be held on the Lab computers, in an anonymised format and accessed through the researcher's password protected university account. All anonymised downloaded and transferred Data will be held in password protected files on the researchers Password protected Laptop. Once the report for the Psychology Empirical project has been confirmed by the external examiners, all data will be deleted. All data storage will conform to the UWTSD Research Data Management Policy.		
25	Please indicate if your data will be stored in the UWTSD Research Data Repository (see https://researchdata.uwtsd.ac.uk/). If so please explain. <i>(Most relevant to academic staff)</i>		
	The data generated in this study, will not be held within the UWTSD Research Data Repository, at this point.		
26	Confirm that you have read the UWTSD guidance on data management (see https://www.uwtsd.ac.uk/library/research-data-management/)	YES	☒
27	Confirm that you are aware that you need to keep all data until after your research has completed or the end of your funding	YES	☒



SECTION K: Declaration

	The information which I have provided is correct and complete to the best of my knowledge. I have attempted to identify any risks and issues related to the research activity and acknowledge my obligations and the rights of the participants. In submitting this application I hereby confirm that I undertake to ensure that the above named research activity will meet the University's Research Ethics and Integrity Code of Practice which is published on the website: https://www.uwtsd.ac.uk/research/research-ethics/		
1	Signature of applicant:	XXXXXXXXXXXX	Date: 25/10/2021

For STUDENT Submissions:

2	Director of Studies/Supervisor:	Dr Kate Williams	Date: 03/12/2021
3	Signature:		

For STAFF Submissions:

4	Academic Director/ Assistant Dean:		Date:
5	Signature:		

Checklist: Please complete the checklist below to ensure that you have completed the form according to the guidelines and attached any required documentation:

☒	I have read the guidance notes supplied before completing the form.
☒	I have completed ALL RELEVANT sections of the form in full.
☒	I confirm that the research activity has received approval in principle
☐	I have attached a copy of final/interim approval from external organisation (where appropriate)
☐	I have attached a full risk assessment (where appropriate) ONLY TICK IF YOU HAVE ATTACHED A FULL RISK ASSESSMENT
☒	I understand that it is my responsibility to ensure that the above named research activity will meet the University's Research Ethics and Integrity Code of Practice.
☒	I understand that before commencing data collection all documents aimed at respondents (including information sheets, consent forms, questionnaires, interview schedules etc.) must be confirmed by the DoS/Supervisor, module tutor or Academic Director.

RESEARCH STUDENTS AND STAFF ONLY

All communications relating to this application during its processing must be in writing and emailed to pgresearch@uwtsd.ac.uk, with the title 'Ethical Approval' followed by your name. You will be informed of the outcome of your claim by email; therefore it is important that you check your University and personal email accounts regularly.

STUDENTS ON UNDERGRADUATE OR TAUGHT MASTERS PROGRAMMES should submit this form (and receive the outcome) via systems explained to you by the supervisor/module leader.

This form is available electronically from the Academic Office web pages:

<https://www.uwtsd.ac.uk/academic-office/appendices-and-forms/>

Appendices list

- Appendix 1:** Information Sheet.
- Appendix 2:** Study Consent Form.
- Appendix 3:** Demographics questionnaire.
- Appendix 4:** Images of household scenes.
- Appendix 5:** Mazes for filler task.
- Appendix 6:** Narratives
- Appendix 7:** Questions for recall phase.
- Appendix 8:** Study debrief sheet.