

APPLICATION FOR ETHICAL APPROVAL

RESEARCH STUDENTS

This form is to be completed by the student within **SIX** months for full-time students and **TWELVE** months for part time students, after the commencement of the research degree or following progression to Part Two of your course.

Once complete, submit this form via the **MyTSD Doctoral College Portal** at (<https://mytsd.uwtsd.ac.uk>).

This document is also available in Welsh.

RESEARCH 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.

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.

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:	April Morris			
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:	Psychology and Counselling			
4	Campus:	Swansea, SA1			
5	E-mail address:	2100941@student.uwtsd.ac.uk			
6	Contact Telephone Number:				
For students:					

7	Student Number:	2100941
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 Williams	☒	07-08-23	

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	BPS Code of Human Research Ethics 2021 BPS Code of Ethics and Conduct 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	If YES then the permission question	YES	☐	NO	☐

	Professional Learning Partnership (APLP)?	below does not need to be answered.				
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:	Retrieval Induced Forgetting on foreign language learning: an investigation using the retrieval-practice paradigm (Anderson et al., 1994)		
2	Proposed start date:	November 2023	Proposed end date:	May 2024
	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, which will explore the role of Retrieval induced forgetting RIF in foreign language learning. Retrieval-induced forgetting (RIF) effect is a phenomenon that occurs when recalling certain information leads to the inability to retrieve related information. This happens because the act of retrieving information strengthens the connections related to that information but weakens the connections to competing information (Anderson et al., 1994). Examples of RIF occurring can be seen in classroom learning, if a child is asked to learn two subjects but is only quizzed on one can cause forgetting of the other topic (Levy & Anderson, 2009). The role of RIF has been explored in many topics, however, there is little research regarding the role of RIF in foreign language learning. One study conducted by Levy et al. (2007) explored if the retrieval of a foreign language term (Spanish) could induce the forgetting of the native language term (English), results found that the practice of the foreign language did inhibit the recollection of the native language, this result indicate that the RIF phenomenon can be seen to play a role when learning new languages. Although this suggests that			

	RIF can be seen in the learning of a second language, the language used in Levy et al. (2007) study used Spanish words and this study will be using Welsh language words, so this may influence the RIF effect, due to how the words are translated and understood by the participants. Also the existing studies explore different roles of RIF and foreign language, there has been no study conducted on Welsh Language and how the RIF phenomenon may affect the learning of a second language. This study is important to the research surrounding memory and learning, it will add to the existing research surrounding the RIF phenomenon and the wealth of knowledge surrounding what inhibits the learning of second language learning. References Anderson, M. W., Bjork, R. A., & Bjork, E. L. (1994). Remembering can cause forgetting: retrieval dynamics in long-term memory. <i>PubMed</i>, 20(5), 1063–1087. https://doi.org/10.1037/0278-7393.20.5.1063 Levy, B., & Anderson, M. (2009). The Control of Mnemonic Awareness. <i>Elsevier eBooks</i>, 205–219. https://doi.org/10.1016/b978-012373873-8.00045-1 Levy, B., Mcveigh, N., & Anderson, M. (2007). Inhibiting Your Native Language The Role of Retrieval-Induced Forgetting During Second-Language Acquisition. <i>Psychological Science</i>, 18(1). https://doi.org/10.1111/j.1467-9280.2007.01844.x (this box should expand as you type)
4	Research Question 1. Will the RIF effect emerge in English/native language words? 2. Will the RIF effect emerge in Welsh/non- native language words? 3. Does the same pattern of retrieval induced forgetting effect seen in native English language words emerge in newly learnt Welsh language words? (this box should expand as you type)
5	Aims of Research Activity The aim of the study is to investigate the following: • The RIF effect on native (English) language words. • The RIF effect on non-native (Welsh) Language words. • Compare the pattern of RIF effect between both languages. (this box should expand as you type)
6	Objectives of Research Activity The objective of this study is to explore: • The retrieval induced forgetting effect and its role in second language learning. • To collect data using the retrieval induced forgetting paradigm (Anderson et al., 1994), using English and Welsh language words. • To analyse the data collected and discuss whether the same pattern seen in native language words is present in newly learnt language words.

	(this box should expand as you type)
	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	Once the participant has signed up for the study via EMS, they will be given the location of where the study will take place. Once the participant arrives, they will be shown to the lab room and handed an information sheet. This will have the information relating to the study, and they will also be handed a consent form, which they must fill in before taking part in the study. Once consent has been given, they will be instructed to use the computer and follow the instructions on screen. The study will be conducted using SuperLabs. As counterbalancing measures will be used, the participant will be allocated a counterbalanced version of the study to take part in first (either Welsh words first or English words first). Each version will contain three phases. The first phase will be the study phase where they will be shown four categories of words with eight words in each category: 32 category-exemplar word pairs (Fruit-Orange) in total each category word pair will be shown for five seconds in the centre of the screen in a randomised order, the phase will be carried out twice, participants will be asked to remember the words shown. The second phase will be the practice phase, where only two of the categories of the four will be shown, and in each category only four of the eight words. Participants will be asked to retrieve eight words which be displayed category cued format along with two letters (Fruit-Or____), participants will have 20 seconds to complete each exemplar, if incorrectly answered they will be shown the correct answer. The practice phases will be shown three times to ensure that sufficient practice has occurred. The last phase will be the test phase, participants will be shown category cues (Fruit), which will be randomised and in the centre of the screen, once the category has been shown they will be instructed to recall as many of the exemplars previously shown relating to the category within 30 seconds. They then complete the same procedure but for the other language words (Welsh or English, depending on which language they completed the first version of the task). Category cues have been used in this study as this is consistent with existing studies which have explored the RIF effect, category cues have also been shown to produce a stronger RIF effect (Anderson et al., 1994) (Groome & Sterkaj, 2010). Once both versions have been completed, they will be debriefed and provided with the debrief form, which will include the relevant contact details needed if they have any concerns or questions about the study. (this box should expand as you type)
	Location of research activity Identify all locations where research activity will take place.
8	Laboratories in IQ Building, Swansea, SA1 Campus (this box should expand as you type)
	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	NA (this box should expand as you type)

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. (this box should expand as you type)		

	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: The study involves an experiment on memory and explores if people are able to develop resilience when losing memory. This study contains the use of the Welsh Language and explores how a non-Welsh speaker recalls Welsh learnt words. (this box should expand as you type)		

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: SuperLab experimental study. Data file, including participants responses to RIF study. (this box should expand as you type)		

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:		
	(this box should expand as you type)		

	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 a minimum of 30 participants as a within-subjects design. <i>(this box should expand as you type)</i>	
11	Who will the participants be?	Participants will be Undergraduate and Postgraduate Students studying one of the Psychology related degree courses at UWTSD. <i>(this box should expand as you type)</i>	
12	How will you identify the participants?	Undergraduate and Postgraduate students will be recruited on a voluntary basis through the experimental management system. Undergraduate students will receive credits for participation. Participants will be identified using their own unique EMS ID. A different code will be assigned to each of the participants' data. <i>(this box should expand as you type)</i>	

	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			
	<i>(this box should expand as you type)</i>			

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			
<i>(this box should expand as you type)</i>				

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"> <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						
	Risk to participants: - There is a potential risk that participants may feel frustrated when met with the test phase of the study. - There is a risk that the participant may have concerns over the storing of their personal data.	How you will mitigate the risk to participants: - In order to mitigate the risk to the participant, this study will comply with the UWTSD Research Ethics and Integrity Code of Practice 2022 and the BPS Code of Human Research Ethics 2021. As this study contains a memory test, it does involve the risk of participants becoming frustrated if they fail to remember what has been asked of them. Therefore, it will be made clear to all participants, that if they feel it would be uncomfortable to take part in a memory test, they should not take part in the study. They will also be told that they have the right to withdraw from the study at any point. Furthermore, the debrief will explain that the study expects to find a forgetting effect. - The participant will be given an information sheet which will entail information on how their data will be handled confidentially and anonymised. Each participant will be identified during the study using their unique EMS ID, their data will then be given a different					

	(this box should expand as you type)	code to identify their data. Also, the participant will be informed that they have the opportunity to retract their data up until they leave the study, which at that point all the data is anonymous, and the researcher will not be able to distinguish who the data belongs too. (this box should expand as you type)
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 (this box should expand as you type)	
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 a risk that the researcher may be accused of harm/impropriety if the participant feels unhappy about something that may have happened during the study.	How you will mitigate the risk to the investigator: 1. In order to mitigate the risk to the participant, this study will comply with the UWTSD Research Ethics and Integrity Code of Practice 2022 and the BPS Code of Human Research Ethics 2021. The researcher will show respect for the autonomy and dignity of the participants. The researcher will act in a professional manner during the whole study process. All participants will be given the necessary amount of information they will need to make a decision on if they wish to take part in the

	2. As the researcher will be providing participants with their email, there is a risk that there could be negative emails from participants. 3. As the study is being conducted in the Labs there is a risk of the researcher's personal safety. 4. The researcher may be asked questions surrounding the study that they may not have the knowledge to answer. <i>(this box should expand as you type)</i>	study. Participants will be informed that the study does entail a memory test and should only take part if they feel comfortable doing so. The researcher will debrief participants and told that if they wish to withdraw, they have the right to do so. Participants will be given the contact email of the researcher and dissertation supervisor. 2. The researcher and participants are expected to act in line with the UWTSD Student Code of Conduct. The researcher will only provide the participants with their university email address and no personal contact details will be given. In the event of negative emails being received from the participants, the researcher will report this to the dissertation supervisor. 3. In order to mitigate this risk, the researcher will ensure that they are only collecting data during university working hours (Monday-Friday 9am-5am) and discuss any issues with the Lab manager on duty. If at any time the researcher feels threatened by the behaviour of the participant, the study will be stopped, and the researcher will report to the Lab manager and dissertation Supervisor. 4. In the event of questions or concerns being voiced by participants and the researcher not knowing how to respond. The researcher will refer to the dissertation supervisor and give the participant the contact details of the dissertation supervisor. <i>(this box should expand as you type)</i>
5	University/institutional risks	

For example: adverse publicity, financial loss, data protection			
Risk to the University: 1. There is a potential risk to UWTSD if the researcher and participants do not act in line with the research and ethical protocols in place. 2. There is a potential risk that the data used in the study may be leaked or not used for intended purpose. <i>(this box should expand as you type)</i>		How you will mitigate the risk to the University: 1. In order to mitigate any risks to UWTSD the researcher will ensure that the BPS Code of Ethics and conduct 2021, BPS Code of Human Research 2021 and UWTSD Research Ethics and Integrity Code of Practice 2022 is adhered to at all times during the study. The researcher will also ensure that they act in a professional manner throughout every stage of the study and in line with the UWTSD Student Code of Conduct. To ensure that the study is mitigating any risks to UWTSD the study will be supervised by the dissertation supervisor. 2. To mitigate this risk, the researcher will ensure that the data is collected and stored in line with the UWTSD Research data Management Policy. The researcher will only use the data for the use of the study. The data collected from this study will be kept in an anonymised form in a password protected file to minimise the risk of the data being used inappropriately. <i>(this box should expand as you type)</i>	
6	Environmental risks For example: accidental spillage of pollutants, damage to local ecosystems		
Risk to the environment: 1. As the data will be collected in the psychology labs, there is a potential risk to the equipment used. <i>(this box should expand as you type)</i>		How you will mitigate the risk to environment: 1. To mitigate this risk, the researcher will ensure that all equipment is respected when used. The researcher will report any broken equipment to the lab manager. <i>(this box should expand as you type)</i>	

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

He	Feedback What de-briefing and feedback will be provided to participants, how will this be done and when?
	The participant will be debriefed by the researcher at the end of the study. This will involve explaining the purpose of the study and checking that the participant feels comfortable to continue submitting their data, as once they leave the lab it will not be possible to withdraw as their data will be anonymous. They will also be handed a debrief form by the researcher at the end of the study. At this stage the researcher will ask if they have any questions relating to the study. The debrief form will include the purpose of the study and will inform the participant that the study expected to find a forgetting effect. The participant will be again informed their right to withdraw from the study. The participant will be given the contact email address of both the researcher and dissertation supervisor, which they can use if they have any questions or concerns regarding the study at a later date. <i>(this box should expand as you type)</i>
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.
	The researcher will hand the participant an information sheet, which they will be asked to read, this sheet will include the information relating to the study. It will include that the study does involve the use of Welsh Language words and a memory test, and if they feel this could be uncomfortable, they should not take part in the study. Once the information sheet has been read and understood by the participant, the participant will receive the consent form, which they must read and sign to agree taking part. The consent form will re-iterate the points on the information sheet and explain the participants' rights and data storage arrangements. <i>(this box should expand as you type)</i>
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 be identified by their unique EMS identify code. The EMS ID of each participant will not be used for the data collected, a further identify code will be allocated to each data set to anonymise all the collected and stored data. The collected data will be stored in a password protected file in SuperLab on the Psychology Lab computer. Participant names will be only collected on the consent form, which will be not linked to data and will be stored within the filing cabinet of the Psychology labs under key lock. All data given by participants will be kept confidential and will not be discussed and only used for its intended purpose. <i>(this box should expand as you type)</i>

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	x	☐

	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.		
	If YES, provide a description of the data and explain why this data needs to be collected:		
2	Participants names will be on consent forms; however, these forms are not linked to the data collected through the study. Demographic data will also be collected which will include age, gender, and fluency of Welsh Language. Demographic data will be collected for descriptive statistics as this is the standard reporting methods in psychology. A mean age score will be calculated, and a total number of each gender will be reported. <i>(this box should expand as you type)</i>		
	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	<i>(this box should expand as you type)</i>		

	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:		
	As written consent forms will be collected, these will be stored safely in a locked filing cabinet within the Psychology labs until confirmation of the dissertation by the exam board and then disposed of correctly. Raw data will be kept in an anonymised electronic format. The data from SuperLabs will be accessible on University computers in the psychology labs using the researchers own password protected university account. The data from SuperLabs will be transferred from the lab computer to the researchers University One drive account which is password protected. <i>(this box should expand as you type)</i>		

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):		
	As the data will be collected through SuperLabs the anonymised data will be stored on a Psychology Lab computer, this data will be transferred to the researchers university one drive, which is password protected. <i>(this box should expand as you type)</i>		
22	List all who will have access to the data generated by the research activity:		
	April Morris (Researcher) Dr Kate Williams (Dissertation Supervisor) An external examiner may request access also. <i>(this box should expand as you type)</i>		
23	List who will have control of, and act as custodian(s) for, data generated by the research activity:		
	April Morris (Researcher) Dr Kate Williams (Dissertation Supervisor) <i>(this box should expand as you type)</i>		
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.		
	All electronic data will be anonymised using randomly allocated codes. All the electronic data collected and stored will be in a password protected file and will only be kept for the duration of dissertation module and deleted after approval by the exam board. As the consent forms are in physical form they will be stored separate to electronic data in a locket filing cabin within the Psychology labs and destroyed once the dissertation has been approved by the exam board. <i>(this box should expand as you type)</i>		
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>		
	N/A <i>(this box should expand as you type)</i>		

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:	April Morris	Date: 16-10-2023

For STUDENT Submissions:

2	Director of Studies/Supervisor:	Dr Kate Williams	Date: 20/10/2023
3	Signature:	<i>K. E. Williams</i>	

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 ONLY

Once complete, submit this form via the **MyTSD Doctoral College Portal** at (<https://mytsd.uwtsd.ac.uk>).

RESEARCH 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.

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.

Appendices

Appendix 1.



Centre for Psychology and Counselling
SA1 Campus

Swansea

Participant Information Sheet

Title of Study: Retrieval Induced Forgetting on foreign language learning: an investigation using the retrieval-practice paradigm (Anderson et al., 1994)

Research Team:

Researcher: April Morris (2100941@student.uwtsd.ac.uk),
Empirical Project Supervisor: Dr Kate Williams (kate.williams@uwtsd.ac.uk).

Date:

Invitation Paragraph:

You are being invited to take part in a research project being conducted by a third-year dissertation student within the Psychology and Counselling department at The University of Wales Trinity Saint David (UWTSD). Before you decide to take part, it is important for you to understand why the research is being conducted and what participation will involve.

Please take time to read the following information carefully and discuss it with the researcher if you wish. Ask if there is anything that is not clear or if you would like more information. Take time to decide whether you wish to take part. Thank you for reading this.

Purpose of Research:

The purpose of this study is to explore the role of Retrieval Induced Forgetting in foreign language learning. This study will use an English Language words version and a Welsh Language version to explore whether the same pattern of retrieval induced forgetting effect seen in native English language words emerge in newly learnt Welsh language words.

What does taking part involve:

This study will involve an experimental lab-based task in-person. During this study you will be required to do the following:

- Provide demographic information of age, gender, and Welsh language ability.
- Take part in a computer-based task, involving the following:
- You will be given two versions of the same task, one with English Language words and another with Welsh Language words.

- Both tasks will follow the same format.
- Each will contain three phases:
 - The first phase is the study phase, where you will be shown 32 category-exemplar word pairs. These words will then be repeated. You are asked to remember the words shown.
 - The second phase will be the practice phase, where only two of the categories of the four will be shown, and in each category only four of the eight words. You will be asked to retrieve eight words which will be displayed category cued format along with two letters (e.g., Fruit-Or____), this phase will be repeated three times.
 - The final phase is the test phase, here you will be shown category cues and asked to recall as many words as possible from that category.

At the end of the study, you will be debriefed by the researcher, and you will be provided with the study debrief sheet.

How long will the study take:

This study is expected to take around 30 minutes to complete. If you have signed-up via the EMS, you can expect to receive 2 credits.

Benefits of participating:

Whilst there are no immediate benefits for those people participating in the study, it is hoped that this work will contribute to the existing body of knowledge on Retrieval-induced forgetting and memory for newly acquired language.

Risks of participating:

There are no severe risks to participating. However, the study does involve learning new words in Welsh and completing two memory tests. Therefore, you may feel frustrated if you are not able to learn the words and remember all the words presented. If you feel you would be uncomfortable learning new words in Welsh and/or doing a memory recall activity, you are advised not to take part in this study.

Participation and withdrawal:

Participation in this study is completely voluntary. You can withdraw at any point during the study without penalty. If you wish to withdraw during the study, please inform the researcher. You do not need to give a reason for withdrawing. However, please note, once you leave the lab environment, it will not be possible to withdraw your data, as it will be anonymised.

How will your data be used and processed:

Your data will only be used for the purpose of the research activity. Names will be collected on consent forms. However, consent forms will not be related to study data. This study will also collect demographic data of age and gender. This is for the purpose of descriptive statistics, which form the standard reporting measures in psychology. Once the data is collected, we will aggregate the data for presentation purposes by calculating the mean age and total gender numbers. This data will also

not be linked to your name. The researcher will not disclose data information or use it for any other purposes.

How will your data be collected and stored:

All collected raw data will be kept in a raw format and then aggregated for analysis purposes. Computer data will be collected via SuperLab, and this data will be stored on the SuperLab computer within the Psychology labs. It will only be accessed by the researcher through a password protected university account. All SuperLab data will be anonymous and copied from the lab computer to the researcher's university OneDrive account, which will also be protected with password. Physical consent forms will be preserved in a securely locked filing cabinet located in the Psychology Labs and separate from the anonymised electronic data. This data will be subsequently deleted after the module assessment undergoes evaluation by the end of year examination board.

How can you contact the researchers if you have any questions:

You can contact the research student via email: April Morris: - 2100941@student.uwtsd.ac.uk

You can also contact the research supervisor via email: Dr Kate Williams - kate.williams@uwtsd.ac.uk.

If you have any immediate questions, please ask the researcher now. If you are happy to continue, please read, complete, and sign the corresponding consent form.

Appendix 2.

Centre for Psychology and Counselling
SA1 Campus
Swansea

Participant Consent Form

Title of Study: Retrieval Induced Forgetting on foreign language learning: an investigation using the retrieval-practice paradigm (Anderson et al., 1994)

Research Team: April Morris (2100941@student.uwtsd.ac.uk) and Dr Kate Williams (kate.williams@uwtsd.ac.uk).

Date:

1. I confirm that I have read and understand the Information Sheet for the above study.	Yes	No
2. I had an opportunity to ask questions and have them answered satisfactorily.	Yes	No
3. I understand that I may ask further questions at any time.	Yes	No
4. I understand that my participation is voluntary, and I am free to withdraw from the study at any time without penalty or giving any reason.	Yes	No
5. I understand that my fully anonymised data will be utilised for only this research study, which is being conducted by a third-year Psychology student for the purpose of their undergraduate	Yes	No

dissertation and will be deleted once external examiner approval for the project has been obtained.		
6. I have been informed that if I feel I would be uncomfortable learning Welsh language words or doing a memory recall activity, that I should not take part in this study.	Yes	No
7. I understand that any data collected will be anonymised and stored in an anonymous format and once I leave the lab it will not be possible to trace the data back to me to withdraw.	Yes	No
8. I understand that the anonymised data provided will be securely stored and accessible only to the members of the research team directly involved in the study, and that confidentiality will be maintained.	Yes	No
9. I confirm that I am over 18 years old	Yes	No
10. I agree to take part in the above study.	Yes	No

Participant Name Date Participant Signature

Researcher Name Date Researcher Signature

There should be two signed copies, one for the participant, one retained by researcher for records.

Appendix 3.

Centre for Psychology and Counselling
SA1 Campus
Swansea

Participant Debrief Sheet

Title of Study: Retrieval Induced Forgetting on foreign language learning: an investigation using the retrieval-practice paradigm (Anderson et al., 1994)

Research Team: April Morris (2100941@student.uwtsd.ac.uk) and Dr Kate Williams (kate.williams@uwtsd.ac.uk).

Date:

Thank you for taking part in this study.

The aim of this study was to explore the retrieval induced forgetting effect on foreign language learning, using an English and Welsh version of the retrieval-practice paradigm (Anderson et al., 1994).

Retrieval-induced forgetting (RIF) is a phenomenon that occurs when recalling certain information leads to the inability to retrieve related information. This happens because the act of retrieving information strengthens the connections related to that information but weakens the connections to competing information (Anderson et al., 1994).

The data collected from your participation will be used to explore whether the same pattern of retrieval induced forgetting effect seen in native English language words emerge in newly learnt Welsh language words.

If you wish to withdraw your data from the study, you must tell the researcher before leaving the lab. After leaving the lab, all your data will be anonymised, and we will not be able to trace it back to you.

If taking part in this study has raised any questions or concerns, please contact the researcher: April Morris 2100941@student.uwtsd.ac.uk or contact the research supervisor: Dr Kate Williams kate.williams@uwtsd.ac.uk.

If you have found any part of this experience to be distressing, please consider speaking with someone that you trust such as a family member or friend. You may also consider speaking with one of the organisations below for additional support:

Within UWTSd:

- [UWSTD Wellbeing Support](https://www.uwtsd.ac.uk/student-services/wellbeing-support/) - <https://www.uwtsd.ac.uk/student-services/wellbeing-support/>
- Student Assistance Support – Free 24-hour confidential helpline 0800 028 3766

Outside UWTSd

- TogetherAll: <https://account.v2.togetherall.com/register/student>
- Feeling Good App: <https://www.feelinggood.app/onboarding/uwtsd-en/>
- Student Union Student Minds (support groups): <https://www.studentminds.org.uk/findsupport.html>

Thank you once again for taking time to participate in this study.

Appendix 4:

English Language words:

Fruits	Apple Banana Pear Lemon Grape Strawberry Kiwi Orange
Occupation	Police Officer Nurse Doctor Teacher Builder Farmer Pilot Postman
Colours	Black Blue White Pink Red Purple Green Yellow

Vehicles	Car Van Boat Plane Train Caravan Lorry Tractor
-----------------	--

Welsh Language words:

Ffrwythau	Afal Banana Gellygen Lemwn Grawnwin Mefus Ciwi Oren
Galwedigaeth	Plismon Nyrs Meddyg Athro Adeiladydd Amaethwr Peilot Postmon
Lliwiau	Du Glas Gwyn Pinc Coch



	Porffor Gwyrdd Melyn
Cerbydau	Car Fan Cwch Awyren Tren Carafan Lori Tractor