

School of Computer Science and Engineering  
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E: cse.admin@unsw.edu.au



## **PARTICIPANT INFORMATION STATEMENT AND CONSENT FORM**

Application of Virtual Reality in Virtual Museum and Learning History

*Ali Darejeh*

### **1. What is the research study about?**

You are invited to take part in this research study. The research study aims to know about if VR virtual museums effectively assist historical learning. You have been invited because you meet our inclusion criteria, and your contact details were obtained from registration form.

### **2. Who is conducting this research?**

The study is being carried out by the following researchers: Dr Ali Darejeh, Tianxing Xu, School of Computer Science and Engineering.

Research Funder: N/A.

### **3. Inclusion/Exclusion Criteria**

Before you decide to participate in this research study, we need to ensure that it is ok for you to take part. The research study is looking recruit people who meet the following criteria:

- Age 18+
- Familiar with computer operation
- Not prone to motion sickness

Participants who meet the following criteria will be excluded from the study:

- Who does not meet the inclusion criteria listed above

### **4. Do I have to take part in this research study?**

Participation in this research study is voluntary. If you do not want to take part, you do not have to. If you decide to take part and later change your mind, you are free to withdraw from the study at any stage.

If you decide you want to take part in the research study, you will be asked to:

- Read the information carefully (ask questions if necessary);
- Sign and return the consent form if you decide to participate in the study;
- Take a copy of this form with you to keep.

### **5. What does participation in this research require, and are there any risks involved?**

Participation in the research will not cause you any more than discomfort. However, in an unlikely event, if you experience feelings of distress while participating in the research and you require support, you can stop participating at any time. You can also tell a member of the research team and they will provide you with assistance. If you agree to participate you will be asked to complete the following research procedures.

#### **5.1 Pre test questionnaire**

This questionnaire is online, via Qualtrics. Before the experiment, each participant will receive a pre-test questionnaire. The questionnaire will be used to understand the participants' experience with computer use, familiarity with VR devices, and their preferences. This will help to better classify and guide participants in the test. The quiz will take approximately 3 minutes.

#### **5.2 Experiment**

The experiment is in person, in CSE VR Lab.

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### 5.2.1 Quiz

Two 10-question quizzes, each will take approximately 3 minutes. This set of questions is related to the knowledge taught in the VR museum. This quiz is used to measure the participants' knowledge level before and after experiencing the virtual museum.

### 5.2.2 Experiment

The experiment will take less than 15 minutes.

Randomisation: The aim of the research is to compare the outcomes of the VR based virtual museum and the traditional keyboard-mouse controlled virtual museum, to ensure that each participant has an equal chance of being placed in any group to start with, a computer allocates each study participant into a group randomly, like the flip of a coin. Once randomised participants will be allocated to one of the following participant groups. An overview of the difference in research procedures that you will be asked to complete is described in the table below.

Intervention	Control
VR Group: Participants will experience the new VR-based virtual museum, where they will interact using VR headsets and controllers. The design focuses on immersive storytelling and interactivity.	Keyboard-Mouse Control Group: Participants will navigate a traditional virtual museum interface using standard computer input devices (keyboard and mouse). This group serves as a control to measure the differences in user experience and usability between the two interaction methods.

This experiment session consists of a series of tasks to help evaluate the ease of use and functionality of the application. The specific process is as follows:

1. Task introduction: The test facilitator will give a brief introduction to each task and ensure that participants understand the task objectives.
2. Task execution: Participants complete tasks according to prompts and their groups, and the test facilitator and observer will record the participants' actions and feedback.
3. Live support: When necessary, the test facilitator will provide appropriate support and guidance to ensure that participants can successfully complete the task; or provide assistance when the user is experiencing discomfort (such as motion sickness)

### 5.3 Post test interview

This section is in person, CSE VR Lab, after the experiment. It will take about 5 minutes. The test facilitator will interview the participant to gain further insights into their opinions and feedback on their virtual museum experience.

**Additional Costs and Reimbursement:** There are no costs associated with participating in this research project, nor will you be paid.

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**6 What will happen to information about me?**

By signing the consent form, you consent to the research team collecting and using information about you for the research study.

The research team will store the data collected from you for this research project for:

- A minimum of 5 years after the publication of the research results;

The information about you will be stored in an/a:

- Information about you will be stored in a re-identifiable format where any identifiers such as your names will be replaced by unique codes.

Your information will only be shared in a format that will not identify you.

- Information collected from you in an electronic format stored on a UNSW password protected OneDrive/Teams Channel only accessible to the approved research investigators.

The information you provide is personal information for the purposes of the Privacy and Personal Information Protection Act 1998 (NSW). You have the right of access to personal information held about you by the University, the right to request correction and amendment of it, and the right to make a complaint about a breach of the Information Protection Principles as contained in the PPIP Act. Further information on how the University protects personal information is available in the [UNSW Privacy Management Plan](#).

**7 How and when will I find out what the results of the research study are?**

The research team intend to publish and/ report the results of the research. All Information will be published in a way that will not identify you.

If you would like to receive a copy of the results you can let the research team know by inserting your email or mailing address in the consent form. We will only use these details to send you the results of the research.

**8 What if I want to withdraw from the research study?**

If you do consent to participate, you may withdraw at any time. You can do so by completing the 'Withdrawal of Consent Form' which is provided at the end of this document or you can ring the research team and tell them you no longer want to participate. Your decision not to participate or to withdraw from the study will not affect your relationship with UNSW Sydney. If you decide to leave the research study, the researchers will not collect additional information from you. You can request that any identifiable information about you be withdrawn from the research project.

**9 What if I have a complaint or any concerns about the research study?**

If you have a complaint regarding any aspect of the study or the way it is being conducted, please contact the UNSW Human Ethics Coordinator:

**Complaints Contact**

Position

UNSW Human Research Ethics Coordinator

School of Computer Science and Engineering  
Building K17  
UNSW Sydney, NSW 2052  
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T: +61 2 9385 5518  
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<b>Telephone</b>	+ 61 2 9385 6222
<b>Email</b>	<a href="mailto:humanethics@unsw.edu.au">humanethics@unsw.edu.au</a>
<b>HC Reference Number</b>	8626

**10 What should I do if I have further questions about my involvement in the research study?**

The person you may need to contact will depend on the nature of your query. If you require further information regarding this study or if you have any problems which may be related to your involvement in the study, you can contact the following member/s of the research team:

**Research Team Contact Details**

<b>Name</b>	Tianxing Xu
<b>Position</b>	Student Researcher
<b>Telephone</b>	0436015193
<b>Email</b>	<a href="mailto:tianxing.xu@student.unsw.edu.au">tianxing.xu@student.unsw.edu.au</a>

**Chief Investigator**

<b>Name</b>	Ali Darejeh
<b>Position</b>	Chief Investigator
<b>Telephone</b>	0451684545
<b>Email</b>	<a href="mailto:ali.darejeh@unsw.edu.au">ali.darejeh@unsw.edu.au</a>

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## Consent Form – Participant providing own consent

### Declaration by the participant

- ☐ I understand I am being asked to provide consent to participate in this research study;
- ☐ I have read the Participant Information Sheet, or someone has read it to me in a language that I understand;
- ☐ I understand the purposes, study tasks and risks of the research described in the study;
- ☐ I provide my consent for the information collected about me to be used for the purpose of this research study only.
- ☐ I have had an opportunity to ask questions and I am satisfied with the answers I have received;
- ☐ I freely agree to participate in this research study as described and understand that I am free to withdraw at any time during the study and withdrawal will not affect my relationship with any of the named organisations and/or research team members;
- ☐ I would like to receive a copy of the study results via email or post, I have provided my details below and ask that they be used for this purpose only;
- ☐ I understand that I will be given a signed copy of this document to keep.
- ☐ I would like to receive a copy of the study results via email or post, I have provided my details below and ask that they be used for this purpose only.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Email Address: \_\_\_\_\_

### Participant Signature

Name of Participant (please print)	
Signature of Research Participant	
Date	

### Declaration by Researcher\*

- ☐ I have given a verbal explanation of the research study; its study activities and risks and I believe that the participant has understood that explanation.

### Researcher Signature\*

Name of Researcher (please print)	
Signature of Researcher	
Date	

**\*An appropriately qualified member of the research team must provide the explanation of, and information concerning the research study.**

**Note: All parties signing the consent section must date their own signature.**

## Form for Withdrawal of Participation

I wish to **WITHDRAW** my consent to participate in this research study described above and understand that such withdrawal **WILL NOT** affect my relationship with The University of New South Wales.

- ☐ I am withdrawing my consent and I would like any identifiable information collected about me which I have provided for the purpose of this research study withdrawn.

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- ☐ I am withdrawing my consent to participate in further components of this research and provide my permission for the research team to retain and/or use information collected about me which I have provided for the purpose of this research.
- ☐
- ☐ I am withdrawing my consent and I understand that any information already published and/or not linked to my identity cannot be withdrawn from the research.

**Participant Name**

Name of Participant (please type)	
Date	

**The section for Withdrawal of Participation should be forwarded to:**

CI Name:	Tianxing Xu
Email:	tianxing.xu@student.unsw.edu.au
Phone:	0436015193
Postal Address:	U210/66 Barker St. Kingsford, NSW, 2032