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Dataset _ The influence of social context on the perception of assistive technology: Using a semantic differential scale to compare young adults' views from the UK and Pakistan

PLEASE CITE THE PUBLISHED VERSION

LICENCE

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REPOSITORY RECORD

Asghar, Salman, George Torrens, Hassan Iftikhar, Ruth Welsh, and Robert G. Harland. 2019. "Dataset _ the Influence of Social Context on the Perception of Assistive Technology: Using a Semantic Differential Scale to Compare Young Adults' Views from the UK and Pakistan". figshare.
<https://doi.org/10.17028/rd.lboro.7982006.v1>.



**Ethics Approvals (Human Participants)
Sub-Committee**

**Ethical Clearance Checklist
for studies involving Human Participants**

INVESTIGATOR 1 (APPLICANT)

Name	School/Organisation	Position	Email
SALMAN ASGHAR	DESIGN SCHOOL	PGR	s.asghar@lboro.ac.uk

RESPONSIBLE INVESTIGATOR (IF DIFFERENT TO ABOVE)

NOTE: For undergraduate and postgraduate students this will be your project supervisor/tutor

Name	School/Organisation	Position	Email
Dr. George Torrens	DESIGN SCHOOL	Staff	g.e.torrens@lboro.ac.uk

ADDITIONAL INVESTIGATORS

Name	School/Organisation	Position	Email
Click or tap here to enter text.	Click or tap here to enter text.	Choose an item.	Click or tap here to enter text.
Click or tap here to enter text.	Click or tap here to enter text.	Choose an item.	Click or tap here to enter text.
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Click or tap here to enter text.	Click or tap here to enter text.	Choose an item.	Click or tap here to enter text.
List any further investigators: Click or tap here to enter text.			

PROJECT DETAILS

Project Title: Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair) _ A perspective of visual attention and gaze pattern during visual product interaction.
Location(s) of Project: Loughborough Univeristy, Leicestershire, UK.

	YES	NO
Does your research involve recruitment of NHS patients or staff or the use of NHS data, premises or equipment or recruitment of patients from the National Centre for Sport and Exercise Medicine (NCSEM)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If YES, HRA/NHS approval may be required please contact the Secretary at J.A.Green@lboro.ac.uk to clarify. If approval has already been obtained please send details to the Secretary at J.A.Green@lboro.ac.uk .		

Please complete both Section A and Section B.

SECTION A

If you answer **YES** to any of the questions in Section A a full **Research Proposal** submission is required, (unless the study is covered by an existing **Generic Protocol** – see below). Please attach this checklist to the completed **Research Proposal Application**.

		Please select	
		YES	NO
A1	Does your research involve participants who are knowingly recruited from vulnerable groups? For example, but not limited to, children under 18 years of age, pregnant women, prisoners/detained persons, persons lacking mental capacity to making an informed decision for themselves, adults in care homes, adults who are vulnerable because of their social, psychological or medical circumstances, other vulnerable group.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A2	Is your study being carried out overseas by investigators travelling to a country or area deemed to be high or very high risk by the insurers (UMAL) or the Foreign and Commonwealth Office?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A3	Does your research involve participants who are outside of the UK that will be exposed to increased physical, emotional or cultural risk because of taking part in your study?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A4	Does your research involve participants taking part without their written informed consent (or without parental consent for under 18 year olds)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A5	Does your research involve intentional deception of participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A6	Does your research include the observation or recording of participants without their knowledge?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A7	Will it be necessary for participants to take part without their knowledge and consent at the time or without being informed of objectives of the study or the use of the data collected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A8	Does the proposed study involve the administration of over-the-counter or prescription medicines or drugs, placebos or other substances (e.g. food substances, vitamins,) to the research participants? (Please refer to Guidance Note on <u>Use of Pharmaceutical Drugs</u>)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A9	Does the proposed study involve the testing of new medical equipment/devices?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A10	Does the proposed study involve intake of compounds additional to daily diet, or other dietary manipulation/supplementation or application of cosmetic products?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A11	Does the proposed study involve the collection of bodily samples from participants or procedures which are physically invasive, e.g. the collection of bodily secretions by physically invasive methods?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A12	Is your research designed to be challenging physically or psychologically in any way (includes any study involving physical exercise/activity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A13	Does your research expose investigators to risks or distress greater than those encountered in their normal lifestyle?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

A14	Does your research expose participants to risks or distress greater than those encountered in their normal lifestyle? For example, does it involve discussion of sensitive topics (e.g. sexual activity, drug use, illegal activities) or procedures which could cause physical, psychological, social or emotional distress to participants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A15	Does the proposed study involve any process that would: <ul style="list-style-type: none"> - involve an MRI scan - affect contraception or assist/alter the process of conception? - involve the use of radiation? (<u>Please refer to published guidelines and contact the University's Radiological Protection Officer before beginning any study which exposes participants to ionising radiation</u>) - involve the use of hazardous materials? (<u>Please refer to published guidelines on using hazardous materials</u>) - involve genetic engineering? 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A16	Will your research involve the sharing of data or confidential information, including transcripts and video/audio recording of participants, beyond the initial consent given or for use by third parties?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A17	Will your research involve participants being identifiable in the resulting outcomes e.g. name included in published material or identifiable features recognisable in videos or pictures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If you answer **YES** to any of the questions in Section A a full Research Proposal submission is required, (unless the study is covered by an existing generic protocol – see below). Please attach the completed checklist to the Research Proposal Application.

If you, or the relevant investigator, are listed as an investigator on an existing Generic Protocol which covers the study please give details and quote the generic protocol number below.

Click or tap here to enter text.

SECTION B

If you answer **YES** to any question in Section B (but none in Section A) please provide further details in the space provided below and explain how this will be addressed. Once signed by the School/Department the checklist should be submitted to the Secretary of the Sub-Committee for approval.

		Please select	
		YES	NO
B1	Does your research involve participants who are under the direct authority of investigators (e.g. academic staff using student participants, sports coaches using his/her athletes in training, teachers using their students)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B2	Does your research involve any incentives, reimbursements or payments being offered to the participants ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

B3	Does your research involve any incentives, reimbursements or payments (additional to salary) being offered to the investigator(s) to conduct the study? Do investigators stand to gain from particular conclusions of the study?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B4	Does your proposed study involve testing of new non-medical equipment/products?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B5	Is your research being conducted <u>without</u> a risk assessment being carried out, and approved by the School, to ensure the physical, emotional and cultural safety of the investigator and participants involved in the study?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B6	If your research involves working alone with participants or visiting them at home, will any of your procedures conflict with the guidance and recommendations given in the Guidance Note on <u>Conducting interviews off campus and working alone</u> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B7	Will your research involve administrative or secure data that requires permission from the appropriate authorities before use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B8	Would the data from your study be retained longer than advised in the Guidance Note on <u>Data Collection and Storage</u> or archived to a data repository for use in future research?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B9	Does your research involve the use of bodily samples previously collected with consent for further research?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If you answer **YES** to any question in Section B (but none in Section A) please provide further details in the space provided below and explain how this will be addressed. Once signed by the School/Department the checklist should be submitted to the Secretary of the Sub-Committee for approval at J.A.Green@lboro.ac.uk.

Click or tap here to enter text.

IF YOU ANSWER YES TO ANY OF THE QUESTIONS IN SECTION A: PLEASE ATTACH THE COMPLETED CHECKLIST TO YOUR FULL RESEARCH PROPOSAL SUBMISSION.

IF YOU ANSWER YES TO ANY QUESTION IN SECTION B (BUT NONE IN SECTION A): ONCE SIGNED BY THE SCHOOL/DEPARTMENT THE COMPLETED CHECKLIST, INCLUDING THE ADDITIONAL INFORMATION REQUESTED AND A COPY OF THE RISK ASSESSMENT, SHOULD BE SUBMITTED TO THE SECRETARY: J.A.GREEN@LBORO.AC.UK

IF YOU HAVE ANSWERED NO TO ALL QUESTIONS IN SECTION A AND SECTION B: YOU SHOULD SUBMIT THE CHECKLIST FOR SCHOOL APPROVAL, PLEASE ATTACH A COPY OF THE RISK ASSESSMENT. ONCE SIGNED ON BEHALF OF THE SCHOOL/DEAN THE STUDY HAS ETHICAL APPROVAL.

INSURANCE

Cover is automatic if the research is within the UK & limited to the following activities:

- i. Questionnaires, interviews, focus groups, physical activity/exercise, psychological activity including CBT;
- ii. Venepuncture (withdrawal of blood);
- iii. Muscle biopsy;
- iv. Measurements or monitoring of physiological processes including scanning;
- v. Collections of body secretions by non invasive methods;
- vi. Intake of foods or nutrients or variation of diet (other than administration of drugs).

All other Research involving human participants, including studies outside of the UK, should be referred to the Insurance Officer along with the completed Insurance Questionnaire to arrange cover - which may incur a charge. Early submission is recommended. If you require further guidance please contact Insurance Support: insurance.support@lboro.ac.uk / 222026

DECLARATION

I confirm that I have read the Code of Practice on Investigations Involving Human Participants and have accurately completed this application. I confirm that the above investigation complies with published codes of conduct, ethical principles and guidelines of professional bodies associated with my research discipline.

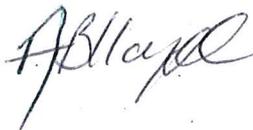
Signature of Applicant: SALMAN ASGHAR



Signature of Supervisor (if applicable): Click or tap here to enter text.

 A. LLOYD

Signature of Dean of School/Head of Department or his/her nominee: Click or tap here to enter text.



A. LLOYD

26.10.18.

Date: 10-10-2018

Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair)

A perspective of visual attention and gaze pattern during visual product interaction

Adult Participant Information Sheet

Investigators Details:

Salman Asghar

PhD Researcher

LDS 1.23, Design School, Loughborough University,

Loughborough, United Kingdom. LE113TU.

+44 (0)1509 223582

s.asghar@lboro.ac.uk

We would like to invite you to take part in our study. Before you decide, we want you to understand why this research is being done and what it would involve for you. The researcher will read the information in this sheet and answer the questions you have. Before making a decision to participate in this study, you can take appropriate time to read the participants information sheet thoroughly.

What is the purpose of the study?

The objective of this research is to collect the data of individual's perception of Assistive Technology (AT) products, such as wheelchair, during visual interaction. The aim of the study is to understand the visual attention and gaze pattern of individuals, when recognising a visual (stimuli) of a manual wheelchair. This will assist researcher to identify in this case your preferences, when assigning certain meanings to the product within their particular culture. This will lead to compare the findings of this experiment with the responses with other diverse cultural groups.

Who is doing this research and why?

This experiment is part of the study for an ongoing PhD research project of Salman Asghar, based at Loughborough Design School, United Kingdom. Dr. George Torrens as supervisor of this research project ensures professional academic approach throughout the pilot study. This study is funded by the Faculty Development Program (FDP) scholarship provided by University of Engineering and Technology (UET) and Higher-Education Commission (HEC), Government of Pakistan.

Are there any exclusion criteria?

The research is aimed to analyse the response from individuals with UK and Pakistan. Therefore, any participant from other nationality will be excluded from the study.

What will I be asked to do?

The details of adult participant information sheet will be provided to all participants to read and will be asked to sign an informed consent form. This study has been designed in three parts. i) completing and understating eye-tracking exercise. ii) Completing the demographic questionnaire followed by an interview. iii) Completing the differential scale questions. You will be allocated with appropriate time to fill-in the answers in each section. At the end of each experiment, you will be informed about the detailed aims and objectives of this research.

Once I take part, can I change my mind?

Yes. Once informed consent protocol is being signed, indicates that you are happy to take part in this experiment. However, if at any time, before or during the session, if you wish to withdraw from the study, you can opt out from the survey. Participants can withdraw at any time, for any reason and will not be asked to explain the reason for withdrawing.

However, once the results of the study are aggregated/published/dissertation has been submitted (expected to be by March 2021), it will not be possible to withdraw your individual data from the research.

Will I be asked to attend any sessions and where will these be?

No. The study involves an experiment followed by filling-in a questionnaire and does not require to attend any sessions, lecturer or seminars.

How long will it take?

The survey is aimed to be completed within 25 minutes including; reading participant information sheet, eye-tracking, demographic questionnaire and semantic differential scale questions. The expected time calculated for each section of study is between 5-7 minutes, excluding the time for calibration and trial sessions.

Are there any disadvantages or risks in participating?

Presently, there is no disadvantage or risk involved in participating in this study.

Data Protection Privacy Notice

Loughborough University will be using information/data from you in order to undertake this study and will act as the data controller for this study. This means that the University is responsible for looking after your information and using it properly. Loughborough University will keep identifiable information about you <for 03 years after the study has finished/ until 2021>. The University's Data Protection Officer can be contacted at: dp@lboro.ac.uk.

What personal information will be collected from me?

You are only required to provide your basic personal information such as gender, age, education, nationality, but we will not ask individual's information for instance, name or any other form of identification. There will also be an option to provide an email address unless you would like more information about the outcome of the study or taking part in future studies.

Why is this personal information being collected?

To investigate the potential gender, age, or cultural related influences on the perception, we are collecting wide-ranging information from you. However, to ensure personal data integrity, the researcher has purposely not incorporated any questions asking personal information such as; name, mobile number, etc.

How long will my personal data be retained?

As mentioned earlier, no personal information will be inquired, and the data collected from this study will remain with principal investigator during the time of his PhD (3 years) and will be discarded afterwards.

Will my taking part in this study be kept confidential?

Your responses will be anonymous and will never be shared with anyone personally. Furthermore, to ensure the integrity, only one original data will be kept will saved and remained with the investigator.

How will the data collected from me be used?

The data collected from this study will be processed and aggregated as a group. This will be then used in published report, journal publications and conference paper.

What is the legal basis for processing the data?

The researcher will process the data in accordance to the clauses mentioned in General Data Protection Regulation (GDPR) and under public task basis. Individual's rights and data probability do no apply, as the data will be processed based on public task. However, the individuals have the right to object. There is no commercially associated sponsor for this research project and therefore, will not have any impact on the public interest. Reference to the GDPR guidelines data, categorised as 'sensitive data', will not be collected from the participants. However, to ensure the all aspects of ethics have been considered for this study, the departmental approval from ethics committee has been requested.

Will my data be shared with others?

The data from this study will be shared with principal investigator and with researcher's PhD supervisors. Those researchers and supervisors are based in Design School, Loughborough University.

How long will the anonymised data/samples be retained?

The anonymised data from this study will be archived and retained permanently on Loughborough University Institutional Repository, which is an open source location operated under the administration of Loughborough University.

I have some more questions; who should I contact?

If you have any questions more generally regarding Data Protection at the University, then please do contact the Data Protection Officer on dp@lboro.ac.uk or write to The Data Protection Officer at Academic Registry, Loughborough University, Loughborough, Leics, UK LE11 3TU.

What if I am not happy with how the research was conducted?

If you are not happy with how the research was conducted, please contact the Secretary of the Ethics Approvals (Human Participants) Sub-Committee, Research Office, Hazlerigg Building, Loughborough University, Epinal Way, Loughborough, LE11 3TU. Tel: 01509 222423. Email: researchpolicy@lboro.ac.uk

The University also has policies relating to Research Misconduct and Whistle Blowing which are available online at <http://www.lboro.ac.uk/committees/ethics-approvals-human-participants/additionalinformation/codesofpractice/> .

If you have taken steps to have a concern or complaint about Loughborough University's handling of data resolved but are still not satisfied you have a right to lodge a complaint with the Information Commissioner's Office (ico), who are the relevant regulator for data privacy and protection matters. The ico can be contacted at Wycliffe House, Water Lane, Wilmslow, SK9 5AF and you will find more information at <https://ico.org.uk>.

Is there anything I need to do before the sessions?

No.

Is there anything I need to bring with me?

No.

What type of clothing should I wear?

You can participate in this study by wearing the clothes of your own choice.

Who should I send the questionnaire back to?

Will be collected by the team assistance.

What are the possible benefits of participating?

The results will provide some insights into how different cultural groups, view the same imagery of an artefact which has implications in online marketing. Being the part of this study, your name will not be included anywhere the results would be published/disclosed or revealed.

INFORMED CONSENT FORM

(to be completed after Participant Information Sheet has been read)

Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair)

A perspective of visual attention and gaze pattern during visual product interaction

Taking Part

Please initial box

The purpose and details of this study have been explained to me. I understand that this study is designed to further scientific knowledge and that all procedures have been approved by the Loughborough University Ethics Approvals (Human Participants) Sub-Committee.

I have read and understood the information sheet and this consent form. I understand that taking part in the project will include filling questionnaire for the pilot study.

I have had an opportunity to ask questions about my participation.

I understand that I am under no obligation to take part in the study, have the right to withdraw from this study at any stage for any reason, and will not be required to explain my reasons for withdrawing.

I agree to take part in this study.

Use of Information

I understand that all the personal information I provide will be treated in strict confidence and will be kept anonymous and confidential to the researchers unless (under the statutory obligations of the agencies which the researchers are working with), it is judged that confidentiality will have to be breached for the safety of the participant or others or for audit by regulatory authorities.

I understand that anonymised response (as a whole set of data) may be used in publications, reports, web pages, and other research outputs.

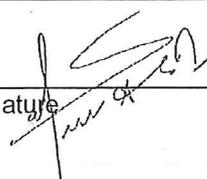
I agree for the anonymised data I provide to be securely archived to a data repository at the end of the project.

I agree to assign the copyright I hold in any materials related to this project to *SALMAN ASGHAR*.

Signature

Date

SALMAN ASGHAR



Signature

Dated

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 Loughborough University

Risk Assessment

School/Ref No...

Task/ premises: Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair) _ A perspective of visual attention and gaze pattern during visual product interaction.

Date	Assessed by (name and signature required)	Checked / Validated (delete as appropriate) by (name and signature required)	Location	Version no.	Review date
03/10/2018					

Activity	Hazard	Who might be harmed and how	Existing measures to control risk	Likelihood*	Severity**	Risk rating***	Result (T,A,N,U)	Additional controls required to adequately control the risk
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[Signature]
 ESTUARNS
 SURGEMAN

[Signature]
 SALMAN ASGHAR
 PHD, RESEARCH STUDENT,
 DESIGN SCHOOL,
 LOUGHBOROUGH UNIVERSITY.

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Risk Assessment

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Task/ premises: Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair) _ A perspective of visual attention and gaze pattern during visual product interaction.

Activity	Hazard	Who might be harmed and how	Existing measures to control risk	Likelihood*	Severity**	Risk rating***	Result (T,A,N,U)	Additional controls required to adequately control the risk
Lab Test (Researcher, with supervisor will perform eye-tracking experiment) Giving Instructions	Risk of verbal abuse/assault.	The researchers under the administration of supervisor conducting will perform the experiment.	<p>Researchers are trained to keep their mobile phone charged and keep it topped up with credit.</p> <p>Do not visit homes/venues after dark in winter months or outside normal working hours.</p> <p>Make sure you are at the right address and talking to the right person.</p> <p>If you have travelled by car, ensure your car is close to the address you are visiting.</p> <p>If you feel uncomfortable at any time during a visit, then make an excuse and leave. (It would be useful to agree an excuse with your work partner/supervisor prior to a visit)</p> <p>Know where the door is should you need to leave.</p> <p>Do NOT allow yourself to be cornered.</p>	3	3	9	A	Risk adequately controlled.

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Risk Assessment

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Activity	Hazard	Who might be harmed and how	Existing measures to control risk	Likelihood*	Severity**	Risk rating***	Result (T,A,N,U)	Additional controls required to adequately control the risk
Lab Test (Researcher, with supervisor will perform eye-tracking experiment)	Risk of verbal abuse/ assault.	The researchers under the administration of supervisor conducting will perform the experiment.	If you feel pressure/presented with violence/ the threat of violence then leave immediately. Let your supervisor know when you arrive at the address. Also let your supervisor know when you leave the address. Never visit an address that has not been planned/ approved! If you have any concerns about the visit speak to your supervisor.	3	3	9	A	Risk adequately controlled.
Lab Test (Researcher, with supervisor will perform eye-tracking experiment)	Risk of accusation against vulnerable individuals.	The researchers under the administration of supervisor conducting will perform the experiment.	Researchers are trained NEVER EVER to be left alone with a child/ young person/ vulnerable individual/ member of the opposite sex. This is to mitigate against the risk of accusation All adults working with minors are to be CRB checked prior to starting work.	2	2	8	A	Risk adequately controlled.

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Risk Assessment

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Activity	Hazard	Who might be harmed and how	Existing measures to control risk	Likelihood*	Severity**	Risk rating***	Result (T,A,N,U)	Additional controls required to adequately control the risk
Lab Test (Researcher, with supervisor will perform eye-tracking experiment)	Fire	Anybody within the vicinity (the design school building)	Ensure that you are aware of the organisations fire procedures/ know where the building exits are/ ensure building exits are clear before starting work.	1	5	5	A	Risk adequately controlled
Lab Test (Researcher, with supervisor will perform eye-tracking experiment)	Organisational hazard, loss of reputation for Loughborough University.	Loughborough University- Poor conduct of students/ researchers can damage the integrity of work at LU/ lead to complaints/ disciplinary actions.	Students/ researchers are trained how to behave when conducting interviews. Students/researchers are trained to respect cultural sensitivities. Students submit project proposals via an ethics/ checklist/ ethics committee prior to commencement of work. Any and all adverse events must be reported. LU procedures must be followed.	2	4	8	A	Risk adequately controlled

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Risk Assessment

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Activity	Hazard	Who might be harmed and how	Existing measures to control risk	Likelihood*	Severity**	Risk rating***	Result (T,A,N,U)	Additional controls required to adequately control the risk
Transport of experiment data	Manual Handling	The researchers and supervisor conducting the experiment.	Students/ researchers are instructed not to carry more than they can carry. LU provides trolleys etc. for the movement of large volumes of documentation.	2	4	8	A	Risk adequately controlled.
	Data protection issues	Anybody with personal information on the survey followed by the experiment	Student/researchers are instructed to observe data protection guidelines. Questionnaires/ documentation with personal information are NOT to be left unattended and out where they can be interfered with. Information is anonymised/ coded where possible.	2	4	8	A	Risk adequately controlled.

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Risk Assessment

School/Ref No....

Task/ premises: Cross-Cultural influence on the semantics ascribed to Assistive Technology (AT) product (a manual wheelchair) _ A perspective of visual attention and gaze pattern during visual product interaction.

Key: T = trivial risk; A = adequately controlled, no further action necessary; N = not adequately controlled, actions required; U = unable to decide (further information required)

*Likelihood

- 5 Very likely – risk will occur repeatedly. To be routinely expected once every 20 – 100 operations, possibly weekly or more frequently if done regularly.
- 4 Likely – will occur several times a year so does not surprise when it happens.
- 3 Possible – may occur sometimes. Likely to occur once a year.
- 2 Unlikely – but may occur perhaps once in every 10 to 100 years.
- 1 Very unlikely to occur. Likelihood approaching zero.

*** Risk rating = Likelihood x Severity

**Severity

- 5 Fatality – death of an employee or multiple fatalities.
- 4 Major injury – permanent disability, serious amputation e.g. Loss of hand.
- 3 Medium injury e.g. Bad scald, or burn, fracture, minor amputation, temporary injury, loss of consciousness. Reportable to the HSE as a three day lost time (employee unavailable for normal work for over 3 days) or serious injury.
- 2 Minor injury – More severe cut, sprain, strain, burn, etc. where return to work is not possible after treatment. It may be lost time less than 3 days.
- 1 No injury or very low injury – scratch, bruise, knock, minor cut, needle stick etc. where the injury allows return to work after first aid treatment – no lost time.

Likelihood x Severity = Risk assessment score

(LOW RISK 1-8 / MEDIUM RISK 9-15 / HIGH RISK 16-25)

Low risk - improve if possible (typically within 1 - 2 years)

Medium Risk - Introduce further controls to reduce risk further (typically 1 - 3 months)

High Risk - Possibly stop operation or immediately introduce control measures within a day or two.

Examples of Hazards

