Piwek et al. (2014) Pre-Registered Replication

Psychology & Educational Sciences DMP

Admin details

Project Name Piwek et al. (2014) Pre-Registered Replication

Principal Investigator / Researcher Sean Joseph Hughes

Description This replication effort is part of the larger 'Systematizing Confidence in Open Research and Evidence' (SCORE) project; a large-scale, multi-site, registered replication effort being headed by the Centre for Open Science and the Department of Defense (USA). For more information on the SCORE project please see (https://www.darpa.mil/program/systematizing-confidence-in-open-research-and-evidence).

Institution Ghent University

Administrative Data

Date of first version

01/02/2021

Date of last update

Question not answered.

1. Data Collection

1.1 What data will you collect or create?

Data will be collected from a program which is typically used in psychological research (i.e., LabJS). Data will be output in .csv file format, with data files relatively small (i.e., less than 1mb). These data files are easily read into R, which will be the primary programme used for processing and analysing data in this research project.

R is very commonly-used in psychological research. .csv files are commonly used both within and outside of psychological research, and are easily mutated into other file formats, and readable by a variety of programmes. Given their robustness and popularity, these files
are suitable for long-term usability.

As far as data content, the following outcome measures will be collected:

1. Demographic information: age and gender

2. Human-likeness ratings: the extent to which a 3D character is more or less similar to a human.

3. Acceptability ratings: the extent to which a 3D character is more or less acceptable.

4. Awareness of the 'Uncanny Valley' idea: yes/no response and open-ended response.

1.2 How will the data be collected or created?

Data will primarily be captured using LabJS and collected using participants on the Prolific online recruitment website (https://www.prolific.co/).

The structure and naming system for the project files will be as follows:

All project files will be contained within a single folder (named based on the project title). Within this folder there will be the following sub folders:

1. "OSF": containing the pre-registration document.
2. "Raw Data": contains the raw data for the experiment.
3. "Script": contains the experimental files needed to reproduce the study.
4. "Analyses": contains the analyses files used to analyze the data.
5. "Materials": any materials used or related to the study.
6. "Submissions": the final manuscript submitted for publication.

Version control will be achieved through the use of Github as a central repository for all folders and files.

2. Data Documentation and Metadata

2.1 How will you document the data?

Codebooks will be used for both raw and processed data for all experiments to ensure ease of interpretability for novel viewers of the data. These codebooks will be created using Microsoft Excel spreadsheets.

3. Ethical and Legal Issues

3.1 How will you manage any ethics and confidentiality issues?

Prior to the study participants will be asked to read the informed consent document and indicate their approval. We will specify that their anonymised data will be made publicly available and shared online for other scientists to examine and use.

Participants will be fully debriefed about the experimental aims and agenda at the end of the study.

3.2 How will you manage intellectual property rights issues?

All data will be collected under a Creative Commons Attribution 4.0 (CC-BY-4.0) license.

4. Data Storage and Backup During Research

4.1 How will you store and backup data during research?

Data will be stored on a password-protected and encrypted work laptop. Additionally, all data will be backed-up to Github and the Open Science Framework, and also stored on an external encrypted harddrive. Data will also be backed up on a shared private server of the LIPLab.

4.2 How will you ensure that stored data are secure?

Stored data will be secured via the use of encryption and password protection (however, all data will be made publicly available).

5. Data Selection and Preservation after Research

5.1 Which data should be retained for preservation and/or sharing?

Data will be maintained indefinitely on the Open Science Framework, in order to ensure long-term transparency and reproducibility of reported effects in published work.

5.2 What is the long-term preservation plan for the selected datasets?

The Open Science Framework will be used for long-term preservation, as well as Github.

6. Data Sharing

6.1 Are any restrictions on data sharing required?

No. Participant consent will be sought for the public disemination of all collected data.

6.2 How will you share data selected for sharing?

Data will be shared via the Open Science Framework. All subsequent publications resulting from this research project will include links to relevant Open Science Framework repositories where the raw and processed data, as well as the relevant processing and analysis R scripts, can be freely downloaded by all interested parties.

7. Responsibilities and Resources

7.1 Who will be responsible for data management?

The principal researcher, Sean Hughes, will be responsible for data management. In the event that the principal researcher leaves the university or department, the data will be available via the Open Science Framework, and also via the shared LIPLab server.

7.2 Will you need additional resources to implement your DMP?

It is unlikely that further resources will be required.