

Principal Investigator

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Study on Gesture Biometrics

PARTICIPANT INFORMATION SHEET

Central University Research Ethics Committee (CUREC) Approval Reference: CS_C1A_19_043_004

1. *Why is this research being conducted?*

The goal of this study is to evaluate the extent to which users can be distinguished from one another by their wrist and finger movements as they perform certain tasks while wearing a smartwatch and a smart ring.

2. *Why have I been invited to take part?*

You have been invited to participate because you are an individual who is older than 18 and is able to wear a smartwatch on your wrist and a smart ring on their finger.

3. *Do I have to take part?*

No. You can ask questions about the research before deciding whether or not to take part. If you do agree to take part, you may withdraw yourself from the study at any time within 30 days of participating, without giving a reason, by advising the researchers of this decision.

4. *What will happen to me if I take part in the research?*

If you are happy to take part in the research, you will be asked to wear a smartwatch and a smart ring (both of which we provide) and to perform a series of simple tasks while the devices record your wrist and finger movements and heart rate. For a small number of tasks, the researcher will ask if they can record your hands with a video recorder. The recording will be seen by other participants who will attempt to copy your hand movements. (The recording is entirely optional. You can still participate in all aspects of the experiment if you choose not to have your hands recorded. If you choose to have your hands recorded during those tasks, only the hand and lower arm will be recorded and the recording will be destroyed once the experiment is completed – no part of it will be published.)

The research is spread across two sessions with a total time commitment of 2 hours. The study will take place at 15 Parks Road of the Department of Computer Science. You will be asked to sign a consent form.

5. *Are there any potential risks in taking part?*

In order to mitigate any potential risks, the researchers will ensure that your data is stored safely and securely, and that no personally identifiable information is accessible to anyone outside the research team.

6. *Are there any benefits in taking part?*

At the end of the second session, you will receive payment in Amazon vouchers worth GBP 20 for taking part in the study (even if you do not complete all activities or later choose to withdraw from the study).

7. What happens to the data provided?

The information you provide during the study is the **research data**. Any research data from which you can be identified (such as name and email address) is known as **personal data**. Any personal data collected will be stored encrypted and kept confidential; it will not be shared outside the research team nor linked to any published results or research data. Our published results will never include any information that could identify you personally.

All research data will be stored for a minimum retention period of 3 years after publication or public release of the work of the research, with the exception of any video recordings (which will be destroyed once the experiment is completed). The research team will have access to the research data. Responsible members of the University of Oxford may be given access to data for monitoring and/or audit of the research.

8. Will the research be published?

The anonymised research data collected during the study will be used to publish results in a peer-reviewed journal or conference.

The University of Oxford is committed to the dissemination of its research for the benefit of society and the economy and, in support of this commitment, has established an online archive of research materials. This archive includes digital copies of student theses successfully submitted as part of a University of Oxford postgraduate degree programme. Holding the archive online gives easy access for researchers to the full text of freely available theses, thereby increasing the likely impact and use of that research.

The research will be written up as a thesis. On successful submission of the thesis, it will be deposited both in print and online in the University archives to facilitate its use in future research. If so, the thesis will be openly accessible.

9. Who has reviewed this study?

This study has been reviewed by, and received ethics clearance through, the University of Oxford Central University Research Ethics Committee (reference number: CS_C1A_19_043_004).

10. Who do I contact if I have a concern about the study or I wish to complain?

If you have a concern about any aspect of this study, please contact the primary researcher, Jack Sturgess (jack.sturgess@cs.ox.ac.uk), or his supervisor, Prof. Ivan Martinovic (ivan.martinovic@cs.ox.ac.uk), and we will do our best to answer your query. I/we will acknowledge your concern within 10 working days and give you an indication of how it will be dealt with. If you remain unhappy or wish to make a formal complaint, please contact the Chair of the Research Ethics Committee at the University of Oxford who will seek to resolve the matter as soon as possible:

Chair, **Computer Science Departmental Research Ethics Committee (CS-DREC)**
Email: ethics@cs.ox.ac.uk

11. Data Protection

The University of Oxford is the data controller with respect to your personal data, and as such will determine how your personal data is used in the study. The University will process your personal data for the purpose of the research outlined above. Research is a task that is performed in the public interest.

Further information about your rights with respect to your personal data is available from <https://compliance.web.ox.ac.uk/individual-rights>.

12. Further Information and Contact Details

If you would like to discuss the research with someone beforehand (or if you have questions afterwards), please contact:

Primary researcher, Jack Sturgess
Email: jack.sturgess@cs.ox.ac.uk
Address: Department of Computer Science, Wolfson Building, Parks Road, Oxford, OX1 3QD