

CONSENT TO TAKE PART IN RESEARCH

XXXX

Study title: XXXX

Principal Investigator: Prof. XXXX

You are being asked to take part in a research study. Taking part in research is voluntary.

Your decision whether or not to take part will have no effect on, *academic standing and/or job status*. Please ask questions if there is anything about this study that you do not understand.

What is the purpose of this study?

The purpose of the study is to explore the feasibility and usability of using a wrist bracelet as an authentication token for authenticating users to their computers (desktops or laptops) or mobile devices (tablets or smartphones). People typically use a username and password (or pincodes) to authenticate themselves to such devices, and are expected to log out from (or lock) their computer or device when not using it. However, in practice users often forget to do that, which is a security risk. We developed a new mechanism that continuously verifies the presence of a user while s/he is using the computer/device and locks the screen when s/he is not using the computer/device. This user study is to test the feasibility and usability of XXXX.

Will you benefit from taking part in this study?

You might not personally benefit from being in this research study. We hope to gather information that may help people in the future.

What does this study involve?

Participation involves wearing a bracelet on both of your hands and using a computer or mobile device. We will install an app on your device for the duration of the study, and remove the app after the study. There are two parts to the study: Part 1 (takes up to 1 hour) and Part 2 (lasts 3 days). In Part 1 you will visit our laboratory and will perform simple specified tasks on the device such as fill out a survey, read an article, perform some gestures using mouse or finger (on touchscreen), log in to the device using given username and password or log-in method. In Part 2 you are take the bracelet with you for 3 days and wear it whenever you are using your device. You can participate in Part 2 only after finishing Part 1. At the end of the study we will conduct a short interview to get your feedback. With your permission, we will video-record how you use the device, but the camera will only view your hands and the device. The video camera will not record your face or the screen of the device. After the session, we will ask you a few questions about your experience with XXXX; with your permission, we will record audio during this interview and later delete the audio after transcribing it.

What are the options if you do not want to take part in this study?

Participation is voluntary; hence you can withdraw from the study at any time. Please do not sign the consent form if you do not want to take part in the study. Once enrolled in the study, you can withdraw from the study anytime by contacting us.

If you take part in this study, what activities will be done only for research purposes?

If you take part in this study, the following activities will be done only for research purposes: collection of wrist movement data (and video record) when using a computer or mobile device, inputs to the computer/device via keyboard/touchscreen and mouse/touchpad (without recording the specific keys typed or a record of anything on the screen), and your responses to a brief survey and short interview conducted during the study.

What are the risks involved with being enrolled in this study?

No risks are expected.

Other important items you should know:

- **Leaving the study:** You may choose to stop taking part in this study at any time. If you decide to stop taking part, it will have no effect on the *academic standing and/or job status*.
- **Number of people in this study:** We expect XX people to enroll in this study.
- **Funding:** XXXX provides funding to XXXX for this research.
- **Product Development:** If the results of this research are used to develop a product sold for a profit, you will not share in the profit. You will not receive money from the profits.

How will your privacy be protected?

The information collected as data for this study includes:

- Your mouse usage pattern.
- Metadata about your keyboard usage pattern, i.e., when a key was pressed, is the key on the left or right side of the keyboard. We do not collect the actual key values of your keystrokes.
- Wrist movement data.
- Video record of your hands using keyboard, mouse, touch pad, or touchscreen.
- Demographic data: age, gender.

We value your privacy. The app will not collect any identifiable or private information about you. The keyboard usage metadata that we collect does not reveal what you type because we do not record which keys you type on the keyboard. We record no information displayed on the screen.

We are careful to protect the identities of the people in his study. We also keep the information collected for this study secure and confidential. All data collected will contain no

identifiable information and only researchers will have access to the data. All data will be stored on secure, password-protected computers, and hard copies (including this consent form) will be stored in the researcher's office in a locked filing cabinet when not in use.

The information collected for this study will be used only for purposes of research as stated earlier in this form. Research data may be shared with officials of XXXX and others involved in the oversight of this study as permitted by law.

It is possible for a court or government official to order the release of study data including information about you.

Will you be paid to take part in this study?

Yes, you will receive \$XX for each hour you participate in Part 1 of the study. In Part 2 of the study, you will receive \$XX per day, provided you contribute 4 hours worth data, i.e., you wear the wrist bracelet and use your device for at least 4 hours for that day. If you provide data for less than 4 hours then the compensation will be pro-rated.

If you are enrolled in the course XX, you can choose to receive extra credits instead of the monetary compensation mentioned above. Part 1 of the user study is worth 0.5% extra credit on your final grade and Part 2 of the user study is worth 2% extra credit on your final grade**.

- *The list of courses in which students can receive extra credit is subject to change, depending on the term and approval from the course instructor.*

** The percentage of extra credits are subject to change, depending on the course instructor.

Whom should you call with questions about this study?

If you have questions or concerns about this study, you can call the research director for this study (Prof. XXXX) at XXX-XXX-XXXX or email us.

If you have questions, concerns, complaints, or suggestions about human research at XXXX, you may call the Office of the Committee for the Protection of Human Subjects at XXX-XXX-XXXX during normal business hours.

CONSENT

I have read the above information about XXXX and have been given time to ask questions. I agree to take part in this study and I have been given a copy of this signed consent form.

Participant's Signature and Date

/

PRINTED NAME

Researcher Signature and Date

PRINTED NAME