Informed Consent

Please read this consent agreement carefully. You must be 18 years old or older to participate.

This study is being conducted by undergraduate student, Natasha Tan of the UCSD Cognitive Science Department.

**Purpose of this research:**
The purpose of this research is to characterize the rich description of recalled events that life-logging technologies are helpful for, for individuals with no memory impairments. This research will make use of two life-logging technologies:

1. SenseCam, a small wearable low-resolution digital camera that can passively take pictures throughout the day at fixed intervals, or in response to changes in light levels, or when manually triggered by the individual wearing the SenseCam.
2. ActivityTrails, a software that records onscreen user activity during instances calculated by an algorithm that denotes changes in the number of keystrokes made, number of applications open or closed, and the number of windows open or closed. Furthermore, this study will also identify if there are consistencies or significant differences in the kinds of details recalled from reviewing recorded events captured by SenseCam and Activity Trails.

**What you will do in this study:**
You will wear a SenseCam and/or activate ActivityTrails software on your computer when you are engaging in or participating in your selected activity, for no longer than the span of one day. You will come to the laboratory the day before your recording day and meet with me to receive and become familiarized with the SenseCam and ActivityTrails software. If you will be recording with ActivityTrails, you will be asked to bring your personal laptop with you to the laboratory so I can install the software on your laptop. If you have a desktop computer, a copy of the software will be given to you at this time so you can download the software onto your computer when you return at home. Should you need assistance with downloading ActivityTrails, I will meet with you at your home to download the software onto your desktop computer. Once you have received the SenseCam and downloaded the ActivityTrails software, you will turn both devices off and turn it on when you begin your selected activity the following day.

After recording with the SenseCam and ActivityTrails for the selected day, you will return to the laboratory the next day with the SenseCam and/or your laptop so I can download the images from SenseCam and ActivityTrails onto a designated computer within our laboratory. (If you recorded on your desktop, I will have to set up a time to meet with you at your home to transfer your ActivityTrails data onto a portable device). At this time, I will also delete, without seeing, any images falling in a time period that you have marked for deletion.

You will be scheduled to return to the lab to review SenseCam and/or ActivityTrails images after a week from your recording day. You will be asked to narrate the details you remember from the activity with and without the aid of SenseCam and/or ActivityTrails images. You will be video recorded at this time. This testing session will last from 1 to 2 hours.

You may also be asked for any general comments about your experience using the SenseCam and ActivityTrails.

**Risks and Benefits:**
There are no anticipated physical risks, beyond those encountered in daily life, associated with participating in this study. However, you may potentially feel uncomfortable as a result of wearing SenseCam or recording with ActivityTrails in a situation where it could take a picture you would prefer not seen by the experimenters. However, prior to recording, you will have selected an activity with the experimenter that you are comfortable recording. In addition, the experimental procedure allows you to deactivate both SenseCam or ActivityTrails at anytime and also ask the experimenter, at your request, to delete any pictures and any desktop screenshots without viewing them, which minimizes this risk.
University of California, San Diego does not provide medical or hospitalization insurance coverage for participants in this research study nor will the University of California, San Diego provide compensation for any injury sustained as a result of participation in this research study, except as required by law.

The benefits to you, from participating in this study, are minimal. You will have the experience of seeing parts of your everyday life a second time, and may gain insight into your memory for everyday events. This is an experience that pervious participants in studies in the UK have found enjoyable.

**Compensation:**
No form of monetary compensation will be provided for subjects involved in all phases of research. All participants will be strictly participating on a voluntary basis.

**Voluntary Withdrawal:**
Your participation in this study is completely voluntary, and you may decide not to participate or may withdraw from participation at any time during the study without penalty or loss of benefits to which you are otherwise entitled. You may skip over any questions or procedures, or you may withdraw by informing the researcher that you no longer wish to participate (no questions will be asked). Your decision to participate, decline, or withdraw from participation will have no effect on your grades at, status at, or future relations with University of California, San Diego.

**Confidentiality & Privacy:**
Your participation in this study will remain completely confidential, and your identity will not be stored with your data. From the beginning of the experiment, you will be assigned an arbitrary code number, and all data (including images and video recordings) will be stored in terms of this code number and will not be linked to your name or other identifying information. All data, consent forms, and initial questionnaires will be stored in a folder secured in the Distributed Cognition and Human-Computer Interaction Lab. Digitally collected data (including images) will be stored on one designated computer in the lab secured by a username and password only known by the researcher. The data key (which links the names of the participants to their code numbers) will be stored in a secure place in the lab that only the researcher will have access to.

While no participants’ images or personally identifying information will be publicly presented or published, the overall results of this study may be presented at conferences and/or published in a thesis paper.

Several aspects of the procedure are designed to safeguard your rights and privacy as a participant. The SenseCam is equipped with two methods by which you will be able to deactivate it anytime, should you prefer to avoid the possibility of images being captured in any places, times, or situations.

First, the SenseCam has an ON/OFF button for complete deactivation (off) or reactivation (on). Second, the SenseCam has a “DO NOT DISTURB” button in which the camera will remain on, but have absolutely no images captured. The SenseCam will remain deactivated for 7 minutes, and will alert you with a beep 15 seconds before it reactivates. You may press the “DO NO DISTURB” button again to reset the device into this mode to last for another 7 minutes. You may reactivate the SenseCam from this mode at any time by pressing the manual shutter button.

ActivityTrails software is also equipped with the option to deactivate recording at anytime, should you prefer to avoid your desktop activity from being recorded. First, to deactivate ActivityTrails from recording, you must go to the task bar located on your desktop and click on the green ActivityTrails icon. Once clicked, you can select the option “Deactivate Activity Trails” to temporarily stop recording. The ActivityTrails software will be still on at this time, though absolutely no screenshots will be captured. Second, you can quit out of ActivityTrails by selecting the “quit” option in the task bar.

Ensuring confidentiality and privacy of data involving all participants is a central concern. Thus, you will only be instructed to record when participating or engaging in the selected activity you are comfortable recording. However, should you want any images or screenshots captured during a certain time period to be deleted without it being seen by anyone (i.e. during a time when you would have preferred for the SenseCam and/or ActivityTrails to be deactivated but forgot to deactivate it), you can note the time period so the researcher can delete all images from that period. You may
also ask researcher to destroy field notes or all or part of video recordings involving any private information should it be necessary.

In the event that any of the non-deleted images should contain information concerning any illegal activity, we would adhere to section 4.05 of the 2002 APA Ethical Principles of Psychologists and Code of Conduct, which states: “(b) Psychologists disclose confidential information without the consent of the individual only as mandated by law, or where permitted by law for a valid purpose such as to… (3) protect the client/patient, psychologist, or others from harm.”

Furthermore, unlike ActivityTrails, because SenseCam is a device that may run the risk of recording information or individuals other than the SenseCam wearer him or herself, several aspects of the procedure are designed to ensure the rights and privacy of other people who may incidentally appear in the low-resolution images captured by SenseCam. When you record with SenseCam, you must also carry with you a reference card containing a prepared statement to read to anyone with questions or concerns about the SenseCam: “I am participating in an experiment on everyday memory. This is a digital camera that automatically captures low-resolution still images throughout the day, which will later be used to test my memory. It does not record audio or full-motion video. Any images captured will not be made public in any fashion and will only be seen by myself, during the memory tests, and by the experimenters. If you would prefer, I can turn off or temporarily deactivate the camera, and/or make a note and have the images just taken deleted without anyone seeing them. I can also provide contact information of the experimenters.”

Further information:
If you have any questions about this study, please contact Natasha Tan, undergraduate student, 9450 Gilman Dr. #40201, La Jolla, CA, 92037. Email: ntan@ucsd.edu; Cell Phone: (858) 922-7562
Or contact the responsible Project Investigator: Professor Jim Hollan, Distributed Cognition and Human-Computer Interaction Lab, University of California, San Diego, La Jolla, CA, 92093. Email: hollan@cogsci.ucsd.edu

Who to contact about your rights in this study:
If you have any questions about your rights as a participant in this study, please contact the University of California, San Diego Human Research Protections Program at (858) 455-5050 or visit their office, located at La Jolla Village Professional Center Suite A208, 8950 Villa La Jolla, La Jolla, CA, 92037.

Agreement:
The purpose and nature of this research has been sufficiently explained to me. I have read and understand the above consent form and voluntarily agree to participate in this study. I understand that I am free to withdraw at any time without incurring any penalty. I understand that I will receive a copy of this form to take with me. I am 18 years of age or older.

Signature: _________________________ Date: _________________________

Name (print): _________________________