**Key Information for Amazon-Lab126 and OLIVES Sensor Data Generation**

**What Am I Being Asked To Do?**

You are being asked to be a volunteer in a research study. This page will give you key information to help you decide if you would like to participate. Your participation is voluntary. As you read, please feel free to ask any questions you may have about the research.

**What Is This Study About and What Procedures Will You be Asked to Follow?**

The purpose of this study is to collect a large-scale open-source dataset of everyday activities while using wearable amd Ambient sensors that measure biomechanical movements, inertial movement, vital signs and environments conditions including temperature, light and humidity. Everyday activities include preparing food, gaming, dancing, twisting, turning, bending, exercising among others. Along with sensor data, the session will be video recorded. Your active participation in this session is expected to last about 30 minutes. At the end of the session, you will be asked to rate your dehydration and exhaustion levels on a pre-specified scale. You are expected to participate in four such sessions.

**Are There Any Risks or Discomforts you Might Experience by Being in this Study?**

You will not be expected to perform any strenuous activity. You will be closely monitored during the activities and at any point during the study, if you feel uncomfortable, a verbal or sign communication will stop the study. There are no expected risks or discomforts associated with the study.

**What Are the Reasons You Might Want to Volunteer For This Study?**

As compensation for your time, we are offering a $5 Amazon gift card per session. You will be given the gift card even if you decide to leave the session early. If you complete all four sessions, you will receive a bonus $20 gift card. In total, the study will provide $40 for one participant.

Your participation in this study may assist researchers in understanding the effect of wearable sensors on activity analysis. While several existing companies (like apple and fitbit) have a wealth of wearable sensors data, they are not publicly available. Public datasets often provide a great tool for rapid prototyping and are also a good source to generate backbone machine learning models that can be repurposed for related applications. The goal of this research project is to work on generating a set of public datasets that uses multiple wearable sensors.

**Do You Have to Take Part in the This Study?**

It is fully your decision if you wish to be in this study or not. If you choose not to participate, or choose to participate and later determine you no longer wish to, you will not lose any rights, services, or benefits as a result of your withdrawal. The study is completely voluntary.

**CONSENT DOCUMENT FOR ENROLLING ADULT PARTICIPANTS IN A RESEARCH STUDY**

**Georgia Institute of Technology**

Georgia Institute of Technology

Project Title: Amazon-Lab126 and OLIVES Sensor Data Generation

Investigators: *Ghassan AlRegib, PhD (PI), Mohit Prabhushankar, PhD (Co PI), Prithwijit Chowdhury (Student), Ghazal Kaviani (Student)*

Protocol and Consent Title: Amazon-Lab126 and OLIVES Sensor Data Generation (11/15/22v1)

You are being asked to be a volunteer in a research study.

**Purpose:**

The purpose of this study is to collect and understand the data from wearable sensors on everyday activity analysis. De-identified (face blurred) video data will be collected to supplement and analyze the correlation between sensors, videos, and activities. We expect to enroll around 100 people in this study. The de-identified data will then be released as an open-source public dataset for research purposes.

**Exclusion/Inclusion Criteria:**

The purpose of the study is to create a publicly available dataset of wearable sensors data. Hence, the participants must allow their de-identified data to be disseminated for the purpose of research only.

Participants in this study must be between 18 years and 89 years old.

Participants must be able to communicate via English.

Participants must be able to consent without requiring surrogate consent from a legally authorized representative.

**Procedures:**

If you decide to be in this study, your part will involve four visits. Each visit will be termed a session and will be conducted at the OLIVES lab in Centergy-One building, located in the Tech Square area of campus. At first, you will be asked demographic questions regarding age, gender, height, weight, and weekly physical activity in hours. Then, one of the assigned graduate research assistants will provide you with wearable sensors. You will perform activities such as preparing food, indoor gaming like table tennis, dancing, twist, turn, jump, lift and other everyday activities. You will be monitored and recorded while performing the activities and any sign of discomfort, either verbal or sign-based from you will end the session. You will be given water at any time during the study. At the end of the study, you will rate your exhaustion and dehydration level on a scale of 1-5. There will be 3 additional sessions that will follow the above procedure spread out over the course of a month. Each session is expected to take 30 mins of your time. In total, your participation in a session will not take more two hours over four sessions over the course of a month.

**Risks or Discomforts:**

The risks involved are no greater than those involved in daily activities such as preparing food, dancing, gaming, exercising. You will not be expected to perform any strenuous activity. You will be closely monitored during the activities and at any point during the study, if you feel uncomfortable, a verbal or sign communication will stop the study.

**Benefits:**

This study is not designed to benefit you directly.  This study is designed to learn more about everyday activities and their analysis through wearable sensors and video cameras. The study results will be used to create de-identified open-source datasets that can be used for the larger biomedical and machine learning communities.

**Compensation to You:**

As compensation for your time, we are offering a $5 Amazon gift card per session. You will be given the gift card even if you decide to leave the session early. The study will comprise 4 sessions. In each session, your participation will earn you the $5 gift card. We will have multiple slots for each session and can work with you to ensure that you get the full compensation of $20 as long as you attend all sessions. As a bonus for participating in all sessions, you will be given an additional $20 gift card at the end of the fourth session. Your total compensation will be: Number of sessions you attend (maximum of 4) multiplied by $5 + $20 bonus = $40 worth of gift cards if attending all four sessions.

U.S. Tax Law requires that a 1099-misc be issued if U.S. tax residents receive $600 or more per calendar year. If non-U.S. tax residents receive more than $75, mandatory 30% withholding is required. Your address and Tax I.D. may be collected for compensation purposes only. This information will be shared only with the Georgia Tech department that issues compensation, if any, for your participation.

**Storing and Sharing your Information:**

Your participation in this study is gratefully acknowledged.  It is possible that your information/data will be enormously valuable for other research purposes.  By signing this form, you consent for your  de-identified information/data to be stored by the researcher and to be shared with other researchers in future studies*.* 

**Use of Photographs, Audio, or Video Recordings:**

We will collect video data of the activities you will perform. However, your data will be de-identified (face blurred) at a frame level to ensure that there is no identifiable information. Data will be stored permanently for research purposes in a secure network with password protection and access will be granted to research personnel only.

We may want to use some of the blurred video recordings of you in public presentations related to the research. We will not use any identifiable information about you in any future presentation or publication.”

**Confidentiality:**

The following procedures will be followed to keep your personal information confidential in this study: We will comply with any applicable laws and regulations regarding confidentiality. To protect your privacy, your records will be kept under a code number rather than by name. Your records will be kept in secured files and unless you give specific consent otherwise, only study staff will be allowed to look at them. Your name and any other fact that might point to you will not appear when results of this study are presented or published. When disseminating the data as part of an open-source dataset, no identifiable information will be included. The video data will be de-identified by blurring your face. The Georgia Institute of Technology IRB and the Office of Human Research Protections may look over study records during required reviews.

**Costs to You:**

There are no costs to you, other than your time, for being in this study.

**Questions about the Study:**

If you have any questions about the study, you may contact either Dr. M. Prabhushankar at [mohit.p@gatech.edu](mailto:mohit.p@gatech.edu) or Prof. Ghassan AlRegib at 404 894 7005, [alregib@gatech.edu](mailto:alregib@gatech.edu)

**Questions about Your Rights as a Research Participant:**

* Your participation in this study is voluntary. You do not have to be in this study if you don't want to be.
* You have the right to change your mind and leave the study at any time without giving any reason and without penalty.
* Any new information that may make you change your mind about being in this study will be given to you.
* You will be given a copy of this consent form to keep.
* You do not waive any of your legal rights by signing this consent form.

If you have any questions about your rights as a research participant, you may contact the Georgia Institute of Technology Office of Research Integrity Assurance at [IRB@gatech.edu](mailto:IRB@gatech.edu).

If you sign below, it means that you have read (or have had read to you) the information given in this consent form, and you would like to be a volunteer in this study.

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Participant Name (printed)

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Participant Signature Date Time

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Signature of Person Obtaining Consent Date