



CONSENT TO PARTICIPATE IN RESEARCH

Investigation of Human-Robot Interaction with Tensegrity Robots

Introduction

My name is Andrew Barkan. I am a graduate researcher at the University of California, Berkeley, working with my faculty advisor, Professor Alice Agogino in the Department of Mechanical Engineering. We are planning to conduct a research study, which I invite you to take part in.

Purpose

The purpose of this study is to explore ways in which humans might seek to interact with tensegrity robots in addition to quantifying these interactions from the robot's perspective.

Procedures

If you agree to be in this study, you will be asked to do the following:

- Interact physically with the tensegrity robot device in order to communicate, collaborate, or cooperate toward a task. This might involve handling, squeezing, throwing, or other forms of physical manipulation with the device.
- Participate in a short survey about your experience following completion of the experiment.
- Consent to being video recorded for the purposes of analysis and dissemination post-experiment consistent with attached media records release form.

Study time: Your study participation will take a total of between 30 minutes and one hour.

Study location: All study procedures will take place at the BEST Lab (230 Hesse Hall).

Benefits

There will be no direct benefit to you from participating in the study.

Risks/Discomforts

Possible risks, discomforts, and/or side effects related to the procedures include:

- *Minor physical injury relating to subject-initiated contact with tensegrity robot device. Injuries such as minor cuts and/or bruises are possible as a result of mishandling the robot device during sections of the experiment that involve physical manipulation of the device.*
- *Device design aspects and experimental protocol measures have been taken to minimize the opportunity and likelihood for minor physical injury of subjects.*

- **Breach of confidentiality:** As with all research, there is a chance that confidentiality could be compromised; however, we are taking precautions to minimize this risk.

Confidentiality

Your study data will be handled as confidentially as possible. If results of this study are published or presented, individual names and other personally identifiable information will not be used.

To minimize the risks to confidentiality, we will ensure that all video data is stored on lab personnel devices and never distributed. Video data will be encrypted and stored only on password-protected computers owned by lab personnel.

Your personal information may be released if required by law. Authorized representatives from the following organizations may review your research data for purposes such as monitoring or managing the conduct of this study:

- University of California

Media Records Release

We may want to use some of the photographs, audio recordings, or video recordings of you in public presentations related to the research. Please read the attached Media Records Release Form. It outlines several possible uses of the recordings and asks for your specific consent to use them in each way. We will not use any recordings of you in any future presentations without your consent.

Retaining research records: When the research is completed, I will save the interaction data and video for possible use in future research done by myself or others. I will retain this study information indefinitely after the study is over. The same measures described above will be taken to protect confidentiality of this study data.

Compensation/Payment

You will not be paid for taking part in this study.

Rights

Participation in research is completely voluntary. You have the right to decline to participate or to withdraw at any point in this study without penalty or loss of benefits to which you are otherwise entitled.

Questions

If you have any questions or concerns about this study, you may contact Andrew Barkan at (602) 578-2294 or andrew_barkan@berkeley.edu.

If you have any questions or concerns about your rights and treatment as a research subject, you may contact the office of UC Berkeley's Committee for the Protection of Human Subjects, at 510-642-7461 or subjects@berkeley.edu.

CONSENT

You will be given a copy of this consent form to keep.

If you wish to participate in this study, please sign and date below.

Participant's Name (*please print*)

Date

Participant's Signature

Date

Person Obtaining Consent

Date