

Key Information for Mental Models in Human-AI Teaming Study

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 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 data about what users know about an environment and their teammates as they play a collaborative game. You and an AI teammate will attempt to complete a cooking game. At multiple points in the experiment, you will pause working and answer questionnaire responses about the game state and what you believe your teammate knows. Your participation in this study is expected to last no more than 40 minutes.

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

Completing this study has minimal risk or potential for harm.

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

You are not likely to benefit in any way from joining this study. However, your participation in this study may assist researchers to design better collaborative agents for effective human-AI collaborations. As compensation for your time, we are offering \$10 (Georgia Tech students will receive their compensation in the form of an Amazon gift card). You will be compensated even if you decide to leave the study early.

Do You Have to Take Part in 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 are no longer willing 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: Close-proximity Human-Robot Collaboration

Investigators: *Karen M Feigh, PhD.*
 Jack Kolb

Protocol and Consent Title: Mental Models for Human-AI Teaming (Protocol H23406)

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

Purpose:

The purpose of this study is to collect data about your interaction experience when performing a collaborative task with an AI partner.

Exclusion/Inclusion Criteria:

Participants in this study must be between the ages of 18-89, speak fluent English, and have the full ability to control a mouse and keyboard. Those with non-correctable visual impairments may not participate in this study. Those younger than 18 years old or older than 89 years old may not be in this study. Those unable to self-provide consent to the study may not participate in this study.

Procedures:

If you decide to be in this study, your part will involve one session. The study will begin with a short pre-experiment questionnaire, followed by a detailed demonstration of the online game. After that you will play the game for several rounds. Your interactions with the website will be recorded. Throughout the assembly task, you will answer several questionnaires about your understanding of the game state. The total amount of time required is expected to be around 40 minutes.

Risks or Discomforts:

Participating in this study carries no more risk than general everyday activities. Completing this study has minimal risk or potential for harm.

Benefits:

You are not likely to benefit in any way from joining this study. We hope what we learn will someday help in the design of better robot systems for human-AI collaboration.

Compensation to You:

You will be compensated with a \$10 for your time and effort. Georgia Tech students will receive their compensation in the form of an Amazon gift card. You will be compensated even if you decide to leave the study early.

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.

Use of Photographs or Video Recordings:

We will not collect any photograph, audio, or video records from your participation.

Storing and Sharing your Information:

All study data will be anonymized and stored in password protected files accessible only by the study team. We will comply with any applicable laws and regulations regarding confidentiality.

Confidentiality:

The following procedures will be followed to keep your personal information confidential in this study: To protect your privacy, your records will be kept under a code number rather than by name. Your records will be kept in locked electronic files in the lab, and only study staff will be allowed to look at them. Your name and any other facts that might point to you will not appear when results of this study are presented or published. The Georgia Institute of Technology IRB, and Office of Human Research Protections may look over study records during required reviews. We will comply with any applicable laws and regulations regarding confidentiality.

Cost 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 the following members of the research team

Jack Kolb kolb@gatech.edu 626 278 9903	Karen M Feigh, PhD. karen.feigh@gatech.edu
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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.

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.

Participant Name (printed)

Participant E-mail address (For compensation purposes)

Participant Signature

Date

Signature of Person Obtaining Consent

Date

Consent to Store and Share your Information:

(Option A) I agree that my de-identified information/data may be stored and shared for future, unspecified research.

SIGNATURE _____

(Option B) I do not allow my de-identified information/data to be stored and shared for future, unspecified research. These may only be used for this specific study.

SIGNATURE _____