

University of Wisconsin-Madison

Research Participant Information Sheet

Title of Study: Accessible Technology Supports for Adults with IDD - Robot Coworker

Project PI: Dr. Bilge Mutlu (bmutlu@wisc.edu)

Study Researcher: Hailey Johnson (hljohnson22@wisc.edu)

Research Group: University of Wisconsin-Madison Computer Sciences, People & Robots Lab

What is this study about?

This study is a computer science research study. It has been designed to help other computer scientists create technology with the voices of adults with IDD in mind.

If you choose to join this study, you will be asked to work with a social robot to make a salad as if you were at a cafe. This research study is focused on learning more about your job tasks and goals; what tools do or could support you; and how you might like working with a robot.

We will start with a 20-minute chat about your work experience. Then we will have you work with Reachy to complete a cooking task. Afterward, we will chat about what you thought about Reachy during the study and your future goals.

You have been asked to participate because of your personal experience as a person with an intellectual or developmental disability who has work or volunteer experience.[1]

There are no wrong answers, and we will go at a pace that works for you. You can also choose to take a break, stop at any time, skip any questions you do not want to answer, or skip any tasks you do not want to complete.

Who is Eligible?

To be eligible for this study, you must satisfy the following criteria:

- You have an Intellectual and Developmental Disability (IDD)[1].
- You are over age 18.
- You have past or current work experience (paid or volunteer).
- You live in the USA, specifically within drivable distance from Madison, WI.
- You can communicate feedback on technology verbally or through an Augmentative and Alternative Communication (AAC) device.
- You are able and willing to participate in a 1.5-hour session.

How long will it take? And where is it?

This session will be 1 and a half hours. It will take place at UW-Madison in Morgridge Hall. For those driving more than 20 miles, we will pay mileage.

Can I bring someone with me?

Yes, you can choose to bring someone with you for support (e.g., parent, guardian, caregiver, sibling, etc.). They will be asked to be present in the room to provide support, but not to participate directly in the study. They may also add additional insight into what you say within the study. For example, if you ask them to add details to a story you are telling, they can help you. Or if they want to add to an answer you gave, they can tell the researchers. We might ask them more questions (one or two), based on what they said, but the questions will be redirected to you.

All questions will be directed toward or about you. We will not ask any questions about the support person's personal experience. They are invited to join due to their familiarity with your experiences.

Since this person will be in the room with you, they will hear your responses to your work experience questions and the demographic questions. We can ask them to leave at any time if you would like.

Will I be recorded, and how will my confidentiality be protected?

Yes, this study uses photography and video/audio recording. Your face will be blurred in photos and videos to protect your privacy. The blurred pictures and videos may be used for conferences, presentations, or future research videos. This means the research team may use pictures, still images from the videos, or short clips from this study for future research materials after they are de-identified.

One other researcher will also be taking notes during the study.

This study is confidential. Neither your name nor other identifiable information will be published or used within additional research materials for conferences, presentations, or future research videos. Your faces will be blurred from visual data (pictures and videos).

Only the research team will have access to the original data. Identifiers will be removed from the identifiable private information. After such removal, the information could be used for future research studies without additional informed consent from the subject or the legally authorized representative.

Are you using Artificial Intelligence (AI)?

Yes. We will also be using OpenAI ChatGPT in the robot. The robot will listen to what you say, send it to OpenAI, and return an answer for you. We will also be taking occasional images through Reachy to keep track of your progress. If you request help identifying an ingredient or have been stuck for a bit, Reachy will send an image to OpenAI to decide how to respond. You may be in the image that Reachy takes.

Are there any risks to me?

- There is a risk of a confidentiality breach.
- You may become fatigued or frustrated by the length of the study.
- You may reveal personal, sensitive, or identifiable information when responding to open-ended questions and demographic questions.

Will I be paid?

Yes, you will receive \$40.00 after you are done if you complete the entire study. If you start but do not complete the study, you will receive partial payment based on how long you participated. For example, if you complete half the study, we will pay you \$20.00.

Are there any other benefits to me?

There are no direct benefits to participating in this study.

Can I choose not to be in the study?

Yes, you can choose to stop participating in the study at any time without penalty. You may also ask for breaks during the study or skip any elements of the study you do not wish to complete.

Who can I contact?

Please contact Hailey Johnson at hjohnson22@wsic.edu with questions about this study.

[1]Intellectual disability starts any time before a child turns 18 and is characterized by differences with both: (1) Intellectual functioning or intelligence, which include the ability to learn, reason, problem solve, and other skills; and (2) Adaptive behavior, which includes everyday social and life skills. The term "developmental disabilities" is a broader category of often lifelong challenges that can be intellectual, physical, or both. "IDD" is the term often used to describe situations in which intellectual disability and other disabilities are present (e.g., Down syndrome, some people with ASD, Williams syndrome, Fetal Alcohol Syndrome, TBI, Cerebral Palsy, ADHD, etc.).