

consent

Study Title: Robot Interaction

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Description of the research

You are invited to participate in a research study about interacting with robots. You have been asked to participate because you are a student at the University of Wisconsin-Madison. The purpose of the research is to understand human robot interactions. This study will include University of Wisconsin-Madison students. This research will be conducted at the University of Wisconsin-Madison in the Psychology building.

What will my participation involve?

If you decide to participate in this research, you will be asked to do interactive tasks with a robot and fill out surveys. Your participation will last approximately **20 minutes for the completion of this at-home survey** and **1 hour and 30**

minutes for the in-person study for a total of 1-hour and 50 minutes for the entire study.

Recording information

Video tapes, audio tapes, and photographs will be made of your participation at the in-person portion of the study. These recordings will be used only by approved personnel on the research team. These recordings may be viewed by the public in visual or digital reports of the research or in future research studies only after your identity is masked and de-identified by blurring your facial features and removing any identifying sound from the recordings. The tapes/recordings will be kept indefinitely.

Should you choose to withdraw your de-identified video/audio data from being kept in our public records, you may contact the research team via the email and phone numbers provided above to request its removal. Upon receipt of such email, we will remove your video/audio data from any open repositories. Participants will have 1 year after completion of the study to request this removal.

Are there any risks to me?

We don't anticipate any risks to you from participation in this study. You will interact with a robotic arm called a Kinova. These

robotic arms pose very minimal risk as they were designed and tested to be safely used with humans. Additionally, you will not touch the robotic arm or be within a distance where the robotic arm would go into your line of movement. There is always a risk of a confidentiality breach.

Are there any benefits to me?

We don't expect any direct benefits to you from participation in this study, however you will get to interact with a robot.

How will my confidentiality be protected?

This study is confidential. Neither your name or any other identifiable information will be published. Only approved personnel on the research team will have access to the data. The research team will not collect names or other written identifying characteristics from participants. All video, audio, and photo data will be securely stored and password protected in a digital format.

Any video/audio/photos will be de-identified before being presented in any public databases or reports about the research. Identifiers will be removed from the identifiable private information (video/audio/photos) and after such removal, the information could be used for future research studies or distributed to another investigator for future research studies

without additional informed consent from the participant or the legally authorized representative. Survey data may also be shared in it's raw form as no identifiable information will be acquired from surveys.

If you participate in this study, we would like to be able to quote you directly without using your name. If you agree to allow us to quote you in publications, please check the statement at the bottom of this form.

Whom should I contact if I have questions?

You may ask any questions about the research at any time. If you have questions, concerns, or complaints, or think that participating in the research has hurt you, talk to the research team or contact the Principal Investigators Paula Niedenthal and Bilge Mutlu at (608) 890-4379.

If you have any questions about your rights as a research participant or have complaints about the research study or study team, call the confidential research compliance line at 1-833-652-2506. Staff will work with you to address concerns about research participation and assist in resolving problems.

If you decide not to participate or to withdraw from the study, you may do so without penalty.

By clicking the I Consent button below, you indicate that you have read this consent form, had an opportunity to ask any questions about your participation in this research, and voluntarily consent to participate.

- ☐ I consent and I give my permission to be quoted directly in publications without my name
- ☐ I consent and DO NOT give my permission to be quoted directly in publications without my name
- ☐ I do not consent

general_experience_robots

Participant ID

In this survey, you will answer questions about you and **your experience with robotic arms (like the one shown below).**



Please answer all questions honestly and in reference to robotic arms like these.

How many times have you interacted with a robotic arm?

- ☐ Never
- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5+

How often do you interact with robotic arms?

- ☐ Never
- ☐ Rarely (less than once a year)
- ☐ Sometimes (a few times a year)
- ☐ Often (once a month)
- ☐ Always (every day)

Have you ever watched a movie or video that included a robotic

arm?

- ☐ Yes
- ☐ No

Have you ever read written text about robotic arms?

- ☐ Yes
- ☐ No

Approximately how many movies/videos?

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ 5+

Have you ever built a robotic arm?

- ☐ Yes
- ☐ No

Please explain the context (e.g., class, club or job) and what kind of robotic arm you built.

Have you ever worked with a robotic arm in a workplace, school, or any other setting?

☐ Yes

☐ No

Please explain the context (e.g., class, club, or job) and what kind of robot arm you worked with.

feelings_towards_robots

Please answer the following questions about your attitudes towards **ROBOTIC ARMS**

Strongly disagree	Disagree	Somewhat disagree	Neutral	Somewhat agree	Agree
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I would feel uneasy if I was given a job where I had to use robotic arms.

☐

☐

☐

☐

☐

Robotic arms may make us even lazier.

☐

☐

☐

☐

☐

Persons and organizations related to the development of robotic arms will consider the needs, thoughts and feelings of their users.

☐

☐

☐

☐

☐

Robotic arms are necessary because they can do jobs that are too hard or too dangerous for people.

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☐

☐

☐

☐

I can trust persons and organizations related to the development of robotic arms.

☐

☐

☐

☐

☐

Select strongly agree for this question.

☐

☐

☐

☐

☐

Please answer the following questions about your attitudes towards **ROBOTIC TECHNOLOGY**

Strongly disagree

Somewhat Disagree

Neutral

Somewhat agree

Strongly agree

I think it's a good idea to rely on robotic technology for help.

☐

☐

☐

☐

☐

Generally, I trust robotic technology.

☐☐☐☐☐

Robotic technology can help me solve many problems.

☐☐☐☐☐

I don't trust the information I get from robotic technology.

☐☐☐☐☐

Robotic technology is reliable.

☐☐☐☐☐

I rely on robotics.

☐☐☐☐☐

Please answer the following questions about your attitudes towards **ROBOTIC ARMS**

Strongly
disagree

Disagree

Somewhat
disagree

Neutral

Somewhat
agree

I fear that a robotic arm would not understand my commands.

☐☐☐☐☐

Robotic arms scare me.

☐☐☐☐☐

I can trust a robotic arm.

☐☐☐☐☐

Robotic arms can make life easier.

☐☐☐☐☐

Widespread use of robotic arms is going to take away jobs from people.

☐

☐

☐

☐

☐

Please answer the following questions about your attitudes towards **ROBOTIC TECHNOLOGY**

	Strongly disagree	Somewhat Disagree	Neutral	Somewhat agree	Strongly agree
I think it's a good idea to rely on robotic technology for help.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I rely on robotics.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Generally, I trust robotic technology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I don't trust the information I get from robotic technology.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotic technology can help me solve many problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotic technology is reliable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please answer the following questions about your attitudes towards **ROBOTIC ARMS**

	Strongly disagree	Disagree	Somewhat disagree	Neutral	Somewhat agree
I am afraid that robotic arms will encourage less interaction between humans.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would feel very nervous just being around a robotic arm.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would feel relaxed interacting with a robotic arm.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dangerous tasks should primarily be given to robotic arms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Select strongly disagree for this question.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assigning routine tasks to robotic arms lets people do more meaningful tasks.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please rate the following statements about your personal **RISK-TAKING** tendencies

	Strongly Disagree	Somewhat Disagree	Neutral	Somewhat Agree	Strongly Agree
Taking risks makes life more fun.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

My friends would say that I'm a risk taker.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I enjoy taking risks in most aspects of my life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would take a risk even if it meant I might get hurt.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taking risks is an important part of my life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I commonly make risky decisions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am a believer of taking chances.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am attracted, rather than scared, by risk.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please answer the following questions about your attitudes towards **ROBOTIC ARMS**

	Strongly disagree	Disagree	Somewhat disagree	Neutral	Somewhat agree
I don't want a robotic arm to touch me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If robotic arms expressed emotions, I would be able to befriend them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Robotic arms are a good thing for society, because they help people.

☐☐☐☐☐

Robotic arms are one of the areas of technology that need to be closely monitored.

☐☐☐☐☐

Unregulated use of robotic arms can lead to societal upheavals.

☐☐☐☐☐

Please answer the following questions about your attitudes towards **ROBOTIC ARMS**

	Strongly disagree	Somewhat Disagree	Neutral	Somewhat agree	Strongly agree
Many people interact with robotic arms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know approximately how much robotic arms cost.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotic arms have a personality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am fascinated by robotic arms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Robotic arms come in different sizes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please answer the following questions about your **ATTITUDES TOWARDS YOURSELF** in general

	Strongly disagree	Disagree	Somewhat disagree	Neutral	Somewhat agree
I know immediately what to do.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am sure of my ground.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think highly of myself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a low opinion of myself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel threatened easily.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am easily intimidated.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

demographic_questions

Gender

- ☐ Woman
- ☐ Man
- ☐ Non-binary

☐ Another identity (please specify below)

☐ Prefer not to answer

Race

Education level

List your major below

Year at UW

Enter your age below

Which hand do you use to write?

- ☐ Left hand
- ☐ Right hand

Are you fluent in English

- ☐ Yes
- ☐ No

Are you an international student?

- ☐ Yes
- ☐ No

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