

SMU-IRB: Participant Information Sheet and Informed Consent Form (Online)

Title of Research Study as it will be stated on the Informed Consent Form provided to participants:
Validating Large Language Models' Theory-of-mind Reasoning Capabilities

Principal Investigator, Title, and Affiliation: Palakorn Achananuparp, Senior Research Scientist, SCIS SMU

1. Purpose of Research Study:

We are building a dataset of conversations to help us learn how good Artificial Intelligence (AI) models are at answering questions about people's thoughts and feelings in different types of conversations, such as guiding someone through a behavior problem, providing someone with emotional support, or persuading someone to donate to a cause.

2. Study Procedures and Duration:

To join the study, you will first take a short quiz with 5 sample questions, similar to the real tasks. You will need to answer at least 4 correctly to qualify. The quiz should take about 10 minutes to complete.

There are 4 types of tasks in this study:

1. **Checking AI-generated mental state inferences**

You will look at a short conversation and review AI-generated multiple-choice answers. Your job is to check if the correct answer and the other options (called "distractors") make sense.

2. **Writing your own mental state inferences**

You will read a short conversation and write your own description of what one speaker might be thinking or feeling about the other,

3. **Checking AI-generated action inferences**

You will read a short conversation along with a statement about what a speaker might be thinking or feeling. Then, you'll review multiple-choice options that suggest what that speaker might say next. Your job is to check if the correct answer and the other choices (distractors) are appropriate.

4. **Mental state inference quiz**

You will read a short conversation and choose the answer that best describes what the speaker might be thinking or feeling.

Each task will take about two to three minutes to complete. You can stop participating in the study at any time.

Please note that:

- You can only take part in **one** of the following: task 1, task 2, or task 4. If you do task 1, you won't be eligible for tasks 2 or 4, and vice versa.
- Everyone is welcome to participate in Task 3, regardless of which other tasks you've done.

3. Benefits of Study:

You will be paid for the tasks you complete. For tasks 1 and 4, you will earn **\$0.33** per task. For tasks 2 and 3, the pay is **\$0.42** per task. You are free to skip any tasks you don't want to do, but keep in mind that you won't be paid for skipped tasks.

This study will help us build a dataset that supports research on how AI can better understand people's thoughts and feelings, also called *machine theory of mind*.

4. Possible Risks of Study:

There are no expected risks from taking part in this study beyond what you might normally encounter in everyday life.

5. Confidentiality and Privacy of Research Data :

This study is completely anonymous. We only use your user ID to review and approve your work, and we don't keep those IDs after that step. The anonymized data from this study may be shared with trusted researchers or institutions for academic purposes. Any reports based on this research will present data in a way that protects your identity, either in aggregate form or with identifying information removed or altered.

6. Contact Details:

- For questions/clarifications on this study, please contact the Principal Investigator, Palakorn Achananuparp at email address palakorna@smu.edu.sg, and/or office number: +65 83600710.
- If you have any questions or concerns regarding your rights as a participant in this research study and wish to contact someone unaffiliated with the research team, please contact the SMU Institutional Review Board Secretariat at irb@smu.edu.sg or + 65 68281925. When contacting SMU IRB, please provide the title of the Research Study and the name of the Principal Investigator, or quote the IRB approval number (_____).
- Please bookmark or save a copy of this information sheet and informed consent form for your records.

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Principal Investigator's Declaration:

I have explained and defined in detail the research procedures in which the participant (or legal representative) has consented to participate.

I also declare that the data collected for this research study will be handled as stated above.

Principal Investigator's Name:

Date:

Participant's Declaration:

I understand that participation is voluntary. Refusal to participate will involve no penalty.

I declare that I am at least 18 years of age.



If I am affiliated with Singapore Management University, my decision to participate, decline, or withdraw from participation will have no adverse effect on my status at or future relations with Singapore Management University.

I have read and fully understood the contents of this form, and hereby give consent to the Singapore Management University research team and its affiliates for this project to collect and/or use my data for the purpose(s) described in this form.

By clicking the "Continue/Next" button, I consent to participate in this study and agree to all of the above.

[Continue/Next Button]

If you do not wish to participate in the survey, you may close the browser now to exit.