

GUIDELINES ON PARTICIPANT INFORMATION SHEET & CONSENT FORM

(For Social, Behavioural and Educational Research studies)

NUS-IRB Reference Code: SOC-24-50

1. Protocol title

Conceptual Combination, Design Goals, and Idea Novelty in Human-AI Co-Creation

2. Principal Investigator and co-investigator(s), if any, with the contact number and organization:

	Name	Email	Contact	Affiliation
Principal Investigator	Goh Khim Yong	disgohky@nus.edu.sg	(+65) 65162832	Department of Information Systems and Analytics, School of Computing, National University of Singapore
Co-investigator	Hu Jinya	hujinya@u.nus.edu	(+65) 82772751	Department of Information Systems and Analytics, School of Computing, National University of Singapore
Co-investigator	Sun Chenshuo	csun@nus.edu.sg	(+65) 81505481	Department of Information Systems and Analytics, School of Computing, National University of Singapore

3. What is the purpose of this research?

You are invited to participate in a research study. This information sheet provides you with information about the research study. The Principal Investigator (the person in charge of this research) or his/her representative will also describe this research to you and answer all of your questions. Read the information below and ask questions about anything you don't understand before deciding whether or not to take part. This research study will investigate the impact of generative AI on human creativity in ideation work. You are invited to complete a toy design task, and your ideas will be evaluated based on novelty and appropriateness.

4. Who can participate in the research? What is the expected duration of my participation? What is the duration of this research?

The research participants will be NUS undergraduate students and Non-NUS participants from Prolific. NUS undergraduate students will be 18 or older. Non-NUS participants recruited from online platforms will be 21 or older. The expected duration per participant will be 10-20 minutes, depending on how quickly the students complete the creative ideation task. The duration of this research will be 2-3 weeks, depending on the progress of student recruitment.

5. What is the approximate number of research participants involved?

For this study, we will recruit approximately 800 (i) NUS undergraduate students as participants and (ii) online participants from Prolific.

6. What will be done if I take part in this research study?

You will complete three sub-tasks and one survey as part of a creative ideation task. In the first sub-task, you will be asked to list as many novel uses as possible for an object in 2 minutes, which will be used to measure your creative ability. In the second sub-task, you will be asked to design a toy by combining a spoon and fork, which serves as a practice task. In the third sub-task, you will be asked to design a toy by combining two common concepts. In the survey, you will provide necessary demographic information and self-rate your ideas submitted in the previous tasks.

OFFICIAL USE ONLY

NUS-IRB PIS&CF for SBER studies
(IRB-GUIDE-S03)

Version 4, 28 May 2020

7. If biological samples are taken, what will be done with my samples?

To protect your confidentiality, your data will be coded (i.e. only identified with a code number). All personal data (e.g. names and contact information) will be kept separate from the data. The link between your personal data and the code number will be kept confidential by the principal investigator or a trusted third party.

8. How will my privacy and the confidentiality of my research records be protected?

Only the principal investigator has your personal data (e.g. names and contact information) and this will not be released to any other person, including members of the research team. Personal data will never be used in a publication or presentation. All data collected will be kept in accordance to the University's Research Data Management Policy. Research data used in any publication will be kept for a minimum of 10 years before being discarded.

9. What are the possible discomforts and risks for participants?

There are no possible discomforts or risks.

10. What is the compensation for any injury?

If you follow the directions of the PI in charge of this research study and you are injured, the NUS will pay the medical expenses for the treatment of that injury. By giving your consent, you will not waive any of your legal rights or release the parties involved in this study from liability for negligence.

11. Will there be reimbursement for participation?

You will receive a base compensation of \$5 after you complete the task. Your ideas will be rated by human professionals. If your top-ranking idea ranks in the top 20% for novelty, you will receive an additional \$3 bonus. If your top-ranking idea ranks between the top 20% and 50% for novelty, you will receive an additional \$2 bonus.

12. What are the possible benefits to me and to others?

There is no direct benefit to you from participating in this research study. However, the knowledge gained may benefit the public in the future by helping people understand when generative AI will benefit creative work and when it may hinder it.

13. Can I refuse to participate in this research?

Yes, you can. Your decision to participate in this research study is voluntary and completely up to you. You can also withdraw from the research at any time without giving any reasons, by informing the principal investigator and all your data collected will be discarded.

14. Whom should I call if I have any questions or problems?

Please contact the Principal Investigator, Goh Khim Yong or Hu Jinya at telephone (+65) 65162832 or (+65) 82772751 and email disgohky@nus.edu.sg or hujinya@u.nus.edu for all research-related matters and in the event of research-related injuries.

For an independent opinion specifically regarding the rights and welfare of research participants, you may contact a staff member of the National University of Singapore Institutional Review Board at telephone (+65) 65161234 [Mondays to Thursdays from 8.30am to 6pm, and Fridays from 8.30am to 5.30pm, except public holidays] or email at irb@nus.edu.sg.

Consent Form

Protocol title:

Conceptual Combination, Design Goals, and Idea Novelty in Human-AI Co-Creation

Principal Investigator with the contact number and organization:

Principal Investigator: Goh Khim Yong

Number: (+65) 65162832

Organization: Department of Information Systems and Analytics, School of Computing, National University of Singapore

I hereby acknowledge that:

1. I have agreed to take part in the above research.
2. I have received a copy of this information sheet that explains the use of my data in this research. I understand its contents and agree to donate my data for the use of this research.
3. I can withdraw from the research at any point of time by informing the Principal Investigator and all my data will be discarded.
4. I will not have any financial benefits that result from the commercial development of this research.
5. I consent to have the coded data made available for future research studies. This will be subject to an Institutional Review Board's approval.
6. I agree to be re-contacted for future related studies. I understand that future studies will be subject to an Institutional Review Board's approval.

Name and Signature (Participant)

Date

Hu Jinya

Name and Signature (Consent Taker)

2024 August 23

Date