

Informed Consent of Participation

You are invited to participate in the experimental study **Fitts' Task In Virtual Reality Using Avatar Hands** initiated and conducted by Student and Valentin Schwind. The research is supervised by Prof. Dr. Niels Henze at the University of Stuttgart. This study is funded and financed by the research project TRR 161, Subproject C04. Please note:

- Your participation is entirely voluntary
- The experimental study will last approximately 60 minutes
- We will record personal demographics (age, gender, etc.)
- We will take photos during the session
- We will track your motion during the session
- You will receive one credit point for the HCI/MCI lecture as compensation
- We may publish our results from this and other sessions in our reports, but all such reports will be confidential and will not include your name

If you have any questions or complaints about the whole informed consent process of this research study or your rights as a human research subject, please contact Valentin Schwind (E-Mail: valentin.schwind@vis.uni-stuttgart.de) or Prof. Dr. Niels Henze. You should carefully read the information below. Please take as much time as you need to read the consent form.

1. Purpose and Goal of this Research

The purpose of this research is to study human performance in a pointing task with different avatar hands in virtual reality. The goal of this research is to understand how visual signals of the own body are incorporated into the own body scheme. Your participation will help us achieve this goal. The results of this research may be presented at scientific or professional meetings or published in scientific proceedings and journals.

2. Participation and Compensation

Your participation in this experimental study is completely voluntary. You will be one of approximately 36 people being tested for this research. You will receive one credit point as compensation for your participation. You may withdraw and discontinue participation at any time without penalty or losing the compensation. If you decline to participate or withdraw from the experimental study, no one on the campus will be told. You may refuse to answer any questions you do not want to answer. The investigator may withdraw you from this research if your physician tells us that continued participation may injure your health.

3. Procedure

After confirming your informed consent you will:

1. You will get a virtual reality headset and will be introduced with virtual hands in the environment
2. You will see a virtual questionnaire. Tap on the table with your index finger to fill out the questionnaire.
3. In multiple rounds, you have to point at virtual circles highlighted in red.
4. This procedure will repeat multiple times using different hand conditions.

The complete procedure of this experimental study will last approximately 60 minutes.

4. Risks and Benefits

There are no risks associated with this experimental study. Discomforts or inconveniences will be minor and are not likely to happen. If any discomforts become a problem, you may discontinue your participation. Your benefit in participating is your compensation of one credit point.

5. Data Protection and Confidentiality

Personal data (age, gender, etc.) will be recorded while participation. The researcher will not identify you by your real name in any reports using information obtained from this experimental study and that your confidentiality as a participant in this experimental study will remain secure. All data you provide in this experimental study will be published anonymized and treated confidentially in compliance with the General Data Protection Regulation (GDPR) of the European Union (EU). Subsequent uses of records and data will be subject to standard data use policies which protect the anonymity of individuals and institutions. In all cases uses of records and data will be subject to the GDPR. Faculty and administrators from the campus will not have access to raw data or transcripts. This precaution will prevent your individual comments from having any negative repercussions. We will take photos, record your body motion, and will potentially take notes during the experimental study. Any recordings cannot be viewed by anyone outside this research project unless we have you sign a separate permission form allowing us to use them (see below). The records will be destroyed after the end of the research, as required by the funding organization or if you contact the researcher to destroy or delete them immediately. As with any publication or online related activity, the risk of a breach of confidentiality is always possible. According to the GDPR, the researchers will inform the participant if a breach of confidential data was detected. We will take photos, record your body motion, and will potentially take notes during the experimental study.

6. Identification of Investigators

If you have any questions or concerns about the research, please feel free to contact:

Valentin Schwind	Prof. Dr. Niels Henze
Principal Investigator	Professor/Head of Department
Human-Computer Interaction	Human-Computer Interaction
Pfaffenwaldring 5a	Pfaffenwaldring 5a
70569 Stuttgart, Germany	70569 Stuttgart, Germany

7. Informed Consent and Agreement

- ☐ I understand the explanation provided to me. I have been given a copy of this form. I have had all my questions answered to my satisfaction, and I voluntarily agree to participate in this experimental study.
- ☐ I agree that my data records and measurements during the study can be published in context of this research.
- ☐ I additionally agree that photos during this study can be made and published.

I understand that data will be anonymized cannot be associated with my name. From the consent of publication, I do not derive any rights (such as any remuneration or co-authorship). This declaration of consent is revocable at any time in line with the GDPR. In the case of revocation, the published recordings, insofar as they are subject to the disposition of the researchers, will be removed. Further recordings are no longer used or published after revocation of publication.

Printed Name of Subject

Signature of Subject

Location, Date