

Informed Consent of Participation

You are invited to participate in the user study **Fitts' Task In Virtual Reality Using Avatar Hands** initiated and conducted by Maxy Musterfrau and Prof. Dr. Valentin Schwind. The research is supervised by Prof. Dr. Valentin Schwind at the University of Applied Sciences in Frankfurt. This study is funded and financed by the research project BMBF KI@FRA-UAS. Please note:

- Your participation is entirely voluntary
- The user study will last approximately 60 minutes
- We will record personal demographics (age, gender, etc.)
- We will take photos during the session
- We will record videos during the session
- We will track your body motion during the session
- All records and data will be subject to standard data use policies.
- All records and subject-related data will be anonymized
- You will receive one credit point for your study course as compensation

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 our ethical committee office: DFG/BMBF. You should carefully read the information below. Please take the time 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 user study is completely voluntary. You will be one of approximately 36 people being tested for this research. You will receive one credit point required for your study course at the University of Regensburg. You may withdraw and discontinue participation at any time without justification for withdrawing. You will still receive your extra one credit point that your professor had offered in exchange for your participation. If you decline to participate or withdraw from the user study, no one on the campus will be told. You may refuse to answer any questions you do not want to answer.

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 user study will last approximately 60 minutes.

4. Risks and Benefits

There are no risks associated with this user study. Discomforts or inconveniences will be minor and are not likely to happen. If any discomforts become a problem, you may discontinue your participation. In order to minimize any risk of infection, the hygiene rules must be followed. The hygiene regulations of the University of Applied Sciences in Frankfurt apply. Any violation of the hygiene regulations or house rules of the university can mean an immediate termination of the study. Your benefit in participating is your compensation of one credit point.

5. Data Protection and Confidentiality

We are planning to publish our results from this and other sessions in scientific articles or other media. These publications will neither include your name nor cannot be associated with your identity. Personal data (age, gender, etc.) will be recorded while participation. Contact details (such as e-mails) can be used to track potential infection chains or to send you further information about the research progress. Your contact details will not be passed on to other third parties. The researcher will not identify you by your real name in any reports using information obtained from this user study and that your confidentiality as a participant in this user study will remain secure and encrypted. All data you provide in this user 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 full anonymity of the participating individuals. 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 record study data, take photos, record videos, record your body motion, and will potentially take notes during the user 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). Records that have not been made public are automatically deleted after the end of the research. The records will be destroyed 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.

6. Identification of Investigators

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

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7. Informed Consent and Agreement

- I understand the explanation provided to me. I understand the hygiene rules of the institution and I accept to follow them. 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 user study.

Printed Name of Subject

Signature of Subject

Location, Date

