

Information for Research Participants in *Acoustic Experience of Privacy*

You have been invited to participate in a research study. Participation in this study is voluntary. You can discontinue your participation in the study at any time. Should you discontinue your participation, you will not be subject to any negative consequences, but information gathered from you up until the point of cessation of your participation may be used in the study.

1. The subject and the possible funder of the research study:

The objective of this study is to explore how people experience privacy in different acoustic environments. The research is funded from the own funds of the research team and thus by Aalto university.

2. The concrete method by with personal data is collected; for example that data is collected by recording interviews or from the registries of public officials, how much of the participant's time is needed for research study participation, where the study will be conducted:

In this study, we make microphone recordings of shorted dialogues between pairs of people. Dialogues are scripted (text is given to participants). The recordings are repeated in 4-6 different acoustic environments.

Each participant furthermore answers to a questionnaire about his or her experience after each recording. For example, we ask whether they would be comfortable in sharing private information to a trusted friend in such an environment. We make sure that subjects *do not share private* information, but we only ask whether subjects *how comfortable* they would be to share.

The duration of one session is 60-90 minutes and they take place in Otaniemi campus, Espoo.

3. Other possible:

4. How and on what basis your personal data is processed in the study

The purpose of this study is:

We want to design technology which users can trust. We want to understand the experience-of-privacy, because that would help us in designing technology which responds better to users' needs. We therefore want determine how sounds in the environment affect our feeling of privacy. For example, we often close the door to have a private conversation, and we want to find out whether we can predict such behaviour from the sound environment.

Our intention is to publish our data in an open access format, such that other researchers can verify and improve upon or work. The public data contains, from each participant, recordings of their voice and the corresponding questionnaire answers. For the whole dataset, we publish the age and gender distribution of participants. Age and gender of individuals is not revealed.

The data will be published as an open (public) database at the Finnish Language Bank (FIN-CLARIN/www.kielipankki.fi).

The concrete method by with personal data is analyzed

Each participant will be assigned an anonymous and unique ID, a four digit number, which is publicly visible in the database. Recordings and questionnaire answers are identified only by that ID.

For administrative and legal purposes, we collect a separate list with participants names, unique ID and contact information. The primary purpose of this list is to make sure that participants can afterwards revoke their consent to publish data. This list is kept in secure storage and access is limited to authorized members of the team.

Researchers using the database can analyze the recordings with signal processing methods, to predict the questionnaire answers from the recordings.

Effects to data subjects

Voice recordings of real people in real environments and corresponding questionnaire answers is the only way to obtain authentic data. Any simulation would always leave open the question whether the simulation corresponds to reality. Experiments of this format are therefore required for our research.

Experiments are designed to limit revealing private information as far as possible. The only data which potentially contains private information is the voice recordings and questionnaire answers. It is however not possible to connect voices or questionnaire answers with

the participants names or other personal information. Voice recordings are also limited in length and the text is scripted (given to the participants), to minimize the amount of revealed private information.

The processing of your personal data is required for the performance of a task carried out in the public interest, namely scientific research and academic expression.

5. Sharing of Personal Data

Aalto may need to share research data with a third party. Sharing of personal data shall be carried out in accordance with privacy legislation. Aalto aims to share only anonymized data whenever this is possible without jeopardizing the research study.

List third parties receiving personal data:

The Finnish Language Bank (FIN-CLARIN / www.kielipankki.fi).

Aalto safeguards the rights and privacy of the individuals by agreements with third parties.

6. Transfer of your data to non-EU/ETA countries

The university's policy is to take special care when transferring your data to countries outside of the European Union and the European Economic Area, particularly where those countries do not provide data protection regulation according to the standards set by the GDPR. These transfers of personal data are conducted according to the GDPR utilizing for instance standard contractual clauses or other appropriate safeguards.

7. Measures taken to protect your data

The following measures are taken in this research study to protect your rights:

x The research study has a research plan

x The person responsible for the research study is: Professor of practice Tom Bäckström

x Personal data is only processed and transferred for the purposes of mentioned at section 4, and information is handled in a manner so as not to reveal information about a specific person to external parties.

A data protection impact assessment has been conducted regarding this research study.

8. Storage period of your data and anonymisation

The criteria for defining this period is based on good scientific practice. In scientific research the aim is to store the research data so that the research results can be verified and previously collected data can be used for further scientific research on the same subject or for scientific research in other fields.

- Published data is anonymized and stored indefinitely (forever).
- List of participants' names is stored securely for 10 years.

Anonymised data is no longer personal data.

9. The rights of the study participant in a scientific study

Because data is being processed for the purposes of scientific research, the purpose of processing is not to use the data in decision-making related to the participant.

It may be necessary to deviate from the rights of the data subject, as defined in GDPR and national legislation, if the study is being carried out in performance of a task carried out the public interest and the exercising of the participant's rights would likely prevent reaching the aim of the research study, the following rights can be deviated from:

- The right to rectify information. Specifically, you may ask to remove your contribution, but you cannot change your contribution afterwards because that would jeopardize scientific integrity, such as reproducibility of results.

If, however, it is possible to achieve the aims of the study and the achievement of the purpose is not greatly hindered, Aalto University will actualize your rights as defined in the GDPR. The extent of your rights is related to the legal basis of processing of your personal data, national legislation and exercising your rights requires proof of identity.

10. More information on the study and the exercising of your rights

The controller in this study is Aalto University.

The contact person in matters related to the study is:

Contact information of the researcher:

Tom Bäckström, tom.backstrom@aalto.fi
Aalto University, POBox 12200, 00076 Aalto, Finland

This privacy notice is available at contact person's or research project's webpage: <https://users.aalto.fi/~backstt1/> .

The research participant must contact Aalto University's data protection officer if they have questions or demands related to the processing of personal data.

Data Protection Officer Jari Söderström

Phone number: 0947001

Email: tietosuojavastaava@aalto.fi

If the research participant sees that their data has been processed in violation of the general data protection regulation, the participant has the right to lodge a complaint with the supervisory authority, the data protection ombudsman (see more: tietosuoja.fi).