

Application for ethical approval at DTU Compute's Institutional Review Board

Project title:

DanskEmoTale (DanishEmoSpeech): A pilot study

Principal investigator:

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Other investigators:

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Date:

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Sneha Das (sned@dtu.dk)

1. Project motivation, background, and hypotheses

1.1 Background

Speech emotion recognition (SER) refers to the technique of studying and interpreting the emotional state of an individual from acoustic cues. With a rich body of literature since the late 1990s, the topic continues to garner interest, especially with recent applications in speech technology, multimodal affective computing, and healthcare [1, 2]. SER, combined with affect recognition using other modalities like vision and physiological signals, is deployed in a wide range of applications. For instance, it is used in the detection and intervention of disorders in healthcare, monitoring student attentiveness in schools, risk assessment within the criminal justice system, and commercial applications such as detecting customer satisfaction in call centers and by employment agencies to find suitable candidates [3, 4]. Research in SER requires access to speech corpora annotated with emotions. While multiple corpora exist for commonly spoken languages, there is a lack of functional Danish speech emotion datasets [5]. The unavailability of Danish affect datasets impedes technology development and impacts the validation of existing methods on Danish speakers. This project aims to narrow the gap in speech affective computing for Danish speakers by developing a Danish speech affect dataset.

1.2 Purpose

The broad goal of this project is to enable studies on speech emotion recognition for Danish speakers. Therefore, the project will create a Danish speech affect dataset [6]. The developed corpus will comprise Danish speech recordings and associated affect annotations. While the primary focus is adult speech, including children as contributors can bring novelty to the project and enable evaluation and validation of existing methods on children. Following the successful creation of the corpus, state-of-the-art machine learning and signal processing methods in speech emotion recognition can be evaluated for performance on the developed corpus, including investigating inherent biases [2] and other differences.

1.3 Hypothesis

Emotion classes and emotional states can be inferred from the speech signal of an individual up to a certain accuracy. Furthermore, the features responsible for speech emotion recognition depend on the language and age of the individual.

2. Study methods

2.1 Measurement techniques

The primary measurement technique is high-quality audio recording using wireless Røde collar microphones. Participants' speech is recorded as they enact sentences with different emotions.

2.2 Experimental design/setup

Recruitment: 150 participants with and Danish and English language skills will be recruited through physical flyers and posts on social media, and schools and theater institutes in the Greater Copenhagen area will be contacted by email and phone. The exclusion criterion are: being under 7 years old or not speaking Danish. Before the experiment, we will obtain written consent from the participant or the guardian of participants younger than 18 years old, as per GDPR. The recruited participants will be reimbursed as per institutional regulations.

Dataset description: We will collect spoken data in the form of monologues and dialogues from enacted and spontaneous conversations, to assimilate both exaggerated speech-emotions and typical spoken articulation of emotions. This will provide us with information on: a) Interactions, which is associated to objective labels like speech/non-speech, speaker, etc. b) Emotions, comprises of subjective labels like positive and negative affect comprising. Pairs will participate in: a) enacted monologues sentences (≈ 15 mins to record), b) enacted dialogues (≈ 25 min to record) c) spontaneous dialogues (≈ 20 minutes to record). They will be recorded in Danish and English.

2.3 Procedure

Before the session, participants (and guardians for minors) read and sign the consent form. Each participant is fitted with a wireless collar microphone. The recording session consists of five sets of enacted monologue sentence: in each set, the participant enacts all five sentences with a single emotion (e.g., anger, happy, sad), with distinguishable pauses between sentences. After completing one emotion, the participant moves to the next emotion and repeats the process. The sentences that the participants will be asked to read aloud are:

1. The tablecloth is lying on the fridge.
2. The black sheet of paper is located up there beside the piece of timber.
3. They just carried it upstairs and now they are going down again.
4. It will be in a place where we always store it.
5. In seven hours it will be morning.

For the enacted dialogues, participant pairs will be given a conversation with assigned roles to the parts of the dialogue they have to articulate. These enacted dialogues will be designed to convey clear emotional content and will follow a procedure similar to that described in [7]. For spontaneous dialogues, a topic will be given to the participant pairs, and they will be required to hold a conversation on that. Examples of selected topics include: What is one of your hobbies? What is your favorite movie, TV show, or book? What is your favorite cuisine? What is your favorite travel destination? What sports do you play? Recordings will be extracted after the session. Post-recording, each actor's sentences are segmented based on turns (continuous flow of words without major pauses). Participants are debriefed after the session.

2.4 Statistical considerations (sample size, statistical analyses)

We will use signal-level descriptive statistics to investigate differences across emotion classes and age groups. The features include first and second order signal statistics and statistics broadly corresponding to the tone, energy, and spectral distribution of the signal [8]. Furthermore, we will explore the potential of modeling the emotions using mixed models, where subjects are included as random effects. The null hypothesis is that the above features are indistinguishable across (a) emotion categories and (b) age groups. For group differences, we will conduct an analysis of variance (ANOVA) with a significance level of 0.05. The Benjamini-Hochberg False Discovery Rate (FDR) will be used to address false discoveries due to multiple hypothesis testing.

Unsupervised clustering, preference, and transfer learning methods will be used to study the representations of emotions across subjects. In addition to the experiment dataset, we will use public speech datasets for pre-training and transfer learning.

Software packages: Python (version ≥ 3.6), R (version ≥ 4), Matlab (version $\geq 2020b$), and associated packages will be used for preprocessing, analysis, and learning.

3. Participant information

3.1 Inclusion criteria

1. Part of an acting school, class, course, or group or some acting experience; in other words, the individual should have had some acting training.
2. Age ≥ 7
3. Danish mandatory, English is a plus.

3.2 Exclusion criteria

1. Individuals who cannot speak Danish.
2. Age < 7

3.3 Reimbursement

Each participant will be reimbursed with 150 DKK, in the form of a gift card, for their participation in the study.

3.4 Recruitment procedure

Participants will be recruited from acting schools, classes, courses, or groups via direct contact with institutions and open calls.

3.5 Debriefing

After participation, all participants (and guardians for minors) will be debriefed about the study's aims and their right to withdraw data before anonymization.

4. Ethical considerations

Written consent is obtained from the parent or guardian before the experiment begins. If a participant withdraws during the experiment, the data will be deleted. However, the data will not be deleted after the experiment has finished.

4.1 Ethical implications

Since the speech sentences are mostly enacted, the data collected does not reflect the actual emotional state of an individual. Potential negative impact on participants is therefore minimized.

4.2 Data protection and handling

Before the experiment, the participant or their guardian will sign a consent form and fill out a general questionnaire with questions on age and gender. The recorded speech signals and participant information will be pseudo-anonymized by generating a random ID for each participant, and the randomly generated key will be accessible only to the main investigator of the project. The data and general information will be stored on secure storage at DTU, and pseudo-anonymization will be ensured by storing the consent with identifying information and data separately, without the possibility of tracing back to individual IDs from the data.

5. Finances

- The initiator of the project is Line Katrine Harder Clemmensen, Ph.d., Associate Professor, DTU Compute and is being led by Sneha Das, Assistant Professor.
- The project is fully funded by the Carlsberg Infrastructure Grant on ‘FairVoice: Benchmark for Equitable Voice AI’ and partially funded by the Innovations fund Grands Solutions on ‘PebAI4MH’ and is a collaboration with Copenhagen University Hospital, the Child Psychiatry Research Unit, University of Copenhagen, Interhuman Aps, DemensAI, Alexandra Institute. The projects received a funding of 856,103 DKK and 19.2 mDKK.
- The research group has no financial conflicts of interest.

6. Dissemination of results

A public version of the dataset will be created for use by researchers in the domain of speech emotion studies. This version will be pseudo-anonymized, [comprising speech signals and meta-data \(age and gender\)](#), and will be shared with researchers who sign the end user licence agreement. The findings from the study will be submitted for publication in a peer-reviewed journal, and we anticipate at least one scientific paper resulting from the study. All publications will be performed such that the identity of the participants is protected.

7. Future applications and implications of the proposed research

The project will establish a Danish speech dataset comprising emotionally rich speech samples from adults and children. The dataset will enable the development of speech systems for the Danish-speaking population. Furthermore, this corpus will enable validation of existing speech systems that were trained and developed for non-Danish languages and mostly adults. Validation of such systems is essential, as language, cultural influences, age, and gender considerably influence the performance of speech systems and tasks.

8. Study period (data collection only)

The data collection for the project will start soon after the ethical approval is received (target 01.09.2025) and end in March 2026.

Litteratur

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- [4] P. Luana, “New kairos facial recognition camera offers customer insights,” September 2019.
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- [6] C. Busso, M. Bulut, C.-C. Lee, A. Kazemzadeh, E. Mower, S. Kim, J. N. Chang, S. Lee, and S. S. Narayanan, “Iemocap: Interactive emotional dyadic motion capture database,” *Language resources and evaluation*, vol. 42, no. 4, pp. 335–359, 2008.
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- [8] F. Eyben, K. R. Scherer, B. W. Schuller, J. Sundberg, E. André, C. Busso, L. Y. Devillers, J. Epps, P. Laukka, S. S. Narayanan, *et al.*, “The geneva minimalistic acoustic parameter set (gemaps) for voice research and affective computing,” *IEEE transactions on affective computing*, vol. 7, no. 2, pp. 190–202, 2015.

Appendix I: Informationsbrev til deltageren

Informationsbrev til deltageren

Kære deltager,

I dette brev oplyser vi dig om eksperimentets formål og fremgangsmåde. Det er vigtigt at du læser brevet omhyggeligt. Hvis du har nogle spørgsmål, skal du ikke tøve med at kontakte os (Line H. Clemmensen, lkhc@dtu.dk) for præciseringer.

Dine rettigheder som deltager

Din deltagelse i dette eksperiment er frivillig. Det betyder at du til enhver tid kan forlade eksperimentet uden at det har nogle konsekvenser for dig, uden at du behøver at give en begrundelse. Hvis du trækker dit samtykke tilbage før eller under forsøget, vil dine data blive slettet og ikke brugt i forskningsprojektet. Hvis du trækker dit samtykke tilbage efter forsøget er afsluttet, kan dine data ikke slettes. Vi vil bede dig om en erklæring om informeret samtykke til at deltage, efter at du er blevet informeret om eksperimentet.

Formålet med forskningsprojektet

I dette forsøg undersøger vi tale- og stemme-signaler der fremføres under skuespil af forskellige følelser. Vi er især interesseret i at undersøge dansk tale, og dets forskelle til andre sprog samt stemmeforskelle mellem børn og voksne. Forskningsresultaterne kan bl.a. bruges til at udvikle digitale assistenter til børn med psykiske lidelser som f.eks. OCD (obsessive compulsive disorder). Vi benytter talesignaler udtalt under skuespil til at undersøge indikationer på følelser i stemmen. Lydoptagelser via mikrofon er en sikker og ikke-invasiv metode til at optage tale og stemme.

Fremgangsmåde

Forsøget varer cirka 60min, og der vil være mulighed for pauser efter behov. Under forsøget vil du blive bedt om at læse fem sætninger højt fem gange, hver gang med en ny følelse (f.eks. vrede, glæde, ked af det). Sætningerne er:

1. Dugen ligger på køleskabet.
2. Det sorte ark papir er placeret deroppe ved siden af tømmerstykket.
3. De bar det bare ovenpå og nu skal de ned igen.
4. Det vil være på det sted, hvor vi altid opbevarer det.
5. Om syv timer er det morgen.

Du vil også deltage i korte samtaler med en anden deltager. Nogle samtaler har bestemte roller, og andre handler om et givet emne. Der vil blive lavet lydoptagelser under forsøget. Efter forsøget bliver optagelserne delt op i sætninger, og du får en kort afsluttende samtale.

Der vil være instruktioner og en forsøgsansvarlig til at hjælpe dig gennem forsøget.

Lagring og håndtering af data

Alt registreret forskningsdata (lydfiler, køn, alder) vil blive opbevaret pseudo-anonymiseret, det vil sige at det ikke vil have nogen forbindelse til dit navn, din adresse, dit CPR-nummer eller andre oplysninger, der gør det muligt at identificere dig. For at imødekomme dette opbevares din data under en nøglekode, som kun forskerne er bekendt med og som vil blive slettet, når den ikke er nødvendig længere (efter dataanalysen). Personlige oplysninger som dit navn vil blive opbevaret separat og lagret sikkert af forsøgslederen. En del af forskningsdataen (lydfiler og information om hvilken sætning der udtales med hvilken følelse under skuespil) vil blive gjort tilgængelig i en form hvor personlige identiteter er beskyttet. Dette kaldes pseudo-anonymisering. Det betyder at dataene ikke vil indeholde navne eller kontaktoplysninger, og at hver deltager i stedet får en tilfældig kode. Listen der forbinder koden med den virkelige person bliver slettet, så ingen, heller ikke forskerne, kan føre dataene tilbage til deltageren. Information som køn og alder vil heller ikke blive gjort tilgængelige via DTUs datalager. Selv om identifikationsoplysninger er slettet er det muligt at nogen vil være i stand til at identificere dig i de offentliggjorte forskningsdata.

Følelsesgenkendelse via talesignaler

Vi vil benytte os af talesignaler udtalt under skuespil til at undersøge indikationer på følelser i stemmen. Lydoptagelser via mikrofon er en sikker og ikke-invasiv metode til at optage tale og stemme. I forsøget vil du blive bedt om at sige fem sætninger fem gange, hver gang med en ny følelse (f.eks. vrede, glæde, ked af det). Sætningerne, som vi vil bede dig om at sige højt, er:

1. Dugen ligger på køleskabet.
2. Det sorte ark papir er placeret deroppe ved siden af tømmerstykket.
3. De bar det bare ovenpå og nu skal de ned igen.
4. Det vil være på det sted, hvor vi altid opbevarer det.
5. Om syv timer er det morgen.

Der vil være instruktioner og en forsøgsansvarlig til at hjælpe dig gennem forsøget.

Kontakt informationer

Skulle du have spørgsmål til eksperimentet, de anvendte metoder eller din egen sikkerhed samt dine rettigheder, så tøv ikke med at kontakte os per e-mail (lkhc@dtu.dk) eller telefonisk (+45 45 25 xx xx).

Med venlig hilsen,
Line H. Clemmensen, Lektor

DTU privatlivspolitik:

<https://www.dtu.dk/english/About/strategy-policy/Policies/Privacy-policy>

https://www.dtu.dk/Om-DTU/strategi_aarsrapporter_mv/Politikker/Privatlivspolitik



Appendix Ib: Subject Information Letter

Subject Information Letter

Dear participant,

In this letter, we inform you about the purpose and procedures of the experiment. It is important that you read the letter carefully. If you have any questions, please do not hesitate to contact us (Line H. Clemmensen, lkhc@dtu.dk) for clarification.

Your rights as participant

Your participation in this experiment is voluntary. This means that you can leave the experiment at any time without any consequences for you and without having to provide a reason. [If you withdraw your consent before or during the experiment, your data will be deleted and not used in the research project. However, if you withdraw after the experiment has finished, your data cannot be deleted.](#) We will ask you for a declaration of informed consent to participate after you have been informed about the experiment.

Purpose of the research project

In this study, we investigate speech and voice signals performed as part of acting out different emotions. We are particularly interested in Danish speech and its differences from other languages, as well as voice differences between children and adults. The research results may, among other things, be used to develop digital assistants for children with mental disorders such as OCD (obsessive compulsive disorder). [We use speech signals spoken during acting to investigate indications of emotions in the voice. Audio recordings via microphone are a safe and non-invasive method for recording speech and voice.](#)

Procedure

The experiment will last approximately 60 minutes, and there will be breaks between the sessions (eg: enact single sentences, dialogues). [During the experiment, you will be asked to read aloud five sentences five times, each time with a different emotion \(e.g., anger, happiness, sadness\).](#) The sentences are:

1. The tablecloth is lying on the fridge.
2. The black sheet of paper is located up there beside the piece of timber.
3. They just carried it upstairs and now they are going down again.
4. It will be in a place where we always store it.
5. In seven hours it will be morning.

You will also take part in short conversations with another participant. Some conversations will have assigned roles, and some will be about a given topic. Recordings will be made during the session. After the experiment, the recordings will be divided into sentences and you will be debriefed

There will be instructions and a responsible experimenter to guide you through the experiment.

Data storage and handling

All registered research data (audio files, gender, age) will be stored in a pseudo-anonymized form, meaning it will not be linked to your name, address, CPR number, or other information that could identify you. To ensure this, your data will be stored under a key code known only to the researchers and which will be deleted when no longer needed (after data analysis). Personal information such as your name will be stored separately and securely by the principal investigator. Part of the research data (audio files and information about which sentence is spoken with which emotion during acting) will be made available via DTU's data repository in a form where personal identities are protected. This is called pseudo-anonymisation. It means that the data will not include any names or contact information, and each participant will instead be given a random code. The list connecting this code to the real person is deleted, so no one, including the researchers, can link the data back to the participant. Information such as gender and age will also not be shared. Even though identification information is deleted, it is possible that someone may be able to identify you in the published research data.

Emotion recognition via speech signals

We will use speech signals spoken during acting to investigate indications of emotions in the voice. Audio recordings via microphone are a safe and non-invasive method for recording speech and voice. In the experiment, you will be asked to say five sentences five times, each time with a new emotion (e.g., anger, happiness, sadness). The sentences, which we will ask you to read aloud, are:

1. The tablecloth is lying on the fridge.
2. The black sheet of paper is located up there beside the piece of timber.
3. They just carried it upstairs and now they are going down again.
4. It will be in a place where we always store it.
5. In seven hours it will be morning.

There will be instructions and a responsible experimenter to guide you through the experiment.

Contact information

If you have any questions about the experiment, the methods used, your own safety, or your rights, please do not hesitate to contact us by email (lkhc@dtu.dk) or by phone (+45 45 25 xx xx).

Best regards,
Line H. Clemmensen, Associate Professor

DTU privacy policy:

<https://www.dtu.dk/english/About/strategy-policy/Policies/Privacy-policy>

https://www.dtu.dk/Om-DTU/strategi_aarsrapporter_mv/Politikker/Privatlivspolitik

Appendix II: Informeret samtykke

Erklæring om informeret samtykke

Eksperiment: DanskEmoTale (DanishEmoSpeech)

Forsker: Line K. H. Clemmensen, Professor

Jeg bekræfter at:

- Jeg er blevet tilfredsstillende informeret om det pågældende forsøg, både mundtligt og skriftligt i form af informationsbrevet.
- Jeg har haft muligheden for at fremlægge spørgsmål vedrørende forsøget og at disse spørgsmål er blevet besvaret på tilfredsstillende vis.
- Jeg har overvejet min deltagelse i eksperimentet omhyggeligt.
- Jeg deltager af min egen fri vilje.

Jeg er enig i at:

- Mine data vil blive indsamlet og opbevaret til videnskabelige formål som nævnt i informationsbrevet i pseudo-anonymiseret tilstand, dvs. med en nøglekode som kun forskerne er bekendt med.
- Mine data må blive delt i en offentlig forskningsdatabase i pseudo-anonymiseret tilstand, med en tilfældig nøglekode, der ikke er gemt af forskerne. Dette inkluderer lydfiler, *køn*, *alder*, samt labels med den følelse der er udøvet under skuespil i lydfilerne. Navn er *IKKE* inkluderet.

Jeg forstår at:

- Min deltagelse er frivillig og jeg har ret til at trække mig fra eksperimentet til enhver tid uden at give en begrundelse.
- Hvis jeg tilbagekalder min deltagelse i forsøget under optagelserne, vil mine forskningsdata blive slettet.
- Hvis jeg tilbagekalder min deltagelse i forsøget efter optagelserne er færdige, må mine forskningsdata stadigvæk anvendes til forskningsformål.
- Mit privatliv er beskyttet i henhold til dansk lovgivning og europæiske retningslinjer (GD-PR; EU 2016/679).
- Der er en risiko for, at nogen muligvis kan identificere mig i offentligt delte forskningsdata.

Jeg giver mit samtykke til at deltage i dette eksperiment

Fulde navn, Fødselsdato

Dato, sted, underskrift

REG-no. DK 30 06 09 46

Appendix IIb: Informeret samtykke, barn

Erklæring om informeret samtykke (barn)

Eksperiment: DanskEmoTale (DanishEmoSpeech)

Forsker: Line K. H. Clemmensen, Professor

Jeg bekræfter at:

- Mit barn og jeg er blevet tilfredsstillende informeret om det pågældende forsøg, både mundtligt og skriftligt i form af informationsbrevet.
- Mit barn og jeg har haft muligheden for at fremlægge spørgsmål vedrørende forsøget og at disse spørgsmål er blevet besvaret på tilfredsstillende vis.
- Mit barn og jeg har overvejet mit barns deltagelse i eksperimentet omhyggeligt.
- Mit barn deltager af egen fri vilje.

Jeg er enig i at:

- Mit barns data vil blive indsamlet og opbevaret til videnskabelige formål som nævnt i informationsbrevet i pseudo-anonymiseret tilstand, dvs. med en nøglekode som kun forskerne er bekendt med.
- Mit barns data må blive delt i en offentlig forskningsdatabase i pseudo-anonymiseret tilstand, med en tilfældig nøglekode, der ikke er gemt af forskerne. Dette inkluderer lydfiler, [køn](#), [alder](#), samt labels med den følelse der er udøvet under skuespil i lydfilerne. Navn er *IKKE* inkluderet.

Jeg forstår at:

- Mit barns deltagelse er frivillig og jeg har ret til at trække mit barn fra eksperimentet til enhver tid uden at give en begrundelse.
- Hvis jeg tilbagekalder mit barns deltagelse i forsøget under optagelserne, vil mit barns forskningsdata blive slettet.
- Hvis jeg tilbagekalder mit barns deltagelse i forsøget [efter optagelserne er færdige](#), må mit barns forskningsdata stadigvæk anvendes til forskningsformål.
- Mit barns privatliv er beskyttet i henhold til dansk lovgivning og europæiske retningslinjer (GDPR; EU 2016/679).
- Der er en risiko for, at nogen muligvis kan identificere mit barn i offentligt delte forskningsdata.

Jeg giver mit samtykke til at mit barn må deltage i dette eksperiment

Fulde navn, Fødselsdato på barn

Fulde navn, Fødselsdato på forælder/værge

Dato, sted, underskrift forælder/værge

REG-no. DK 30 06 09 46

Appendix IIc: Informed Consent

Declaration of Informed Consent

Experiment: DanishEmoSpeech

Researcher: Line K. H. Clemmensen, Associate Professor

I confirm that:

- I have been satisfactorily informed about the experiment, both verbally and in writing in the form of the information letter.
- I have had the opportunity to ask questions about the experiment and these questions have been answered satisfactorily.
- I have carefully considered my participation in the experiment.
- I participate of my own free will.

I agree that:

- My data will be collected and stored for scientific purposes as stated in the information letter in a pseudo-anonymized form, i.e., with a key code known only to the researchers.
- My data may be shared in a public research database in pseudo-anonymized form, with a random key code not stored by the researchers. This includes audio files, **age**, **gender**, and labels with the emotion acted in the audio files. Name is *NOT* included.

I understand that:

- My participation is voluntary and I have the right to withdraw from the experiment at any time without giving a reason.
- If I withdraw my participation in the experiment during recording, my research data will be deleted.
- If I withdraw my participation in the experiment after recording has finished, my research data may still be used for research purposes.
- My privacy is protected in accordance with Danish law and European guidelines (GDPR; EU 2016/679).
- There is a risk that someone may be able to identify me in publicly

I give my consent to participate in this experiment

_____	_____
Full name, Date of birth	

_____	_____
Date, place, signature	

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Appendix IIId: Informed Consent, Child

Declaration of Informed Consent (Child)

Experiment: DanishEmoSpeech

Researcher: Line K. H. Clemmensen, Associate Professor

I confirm that:

- My child and I have been satisfactorily informed about the experiment, both verbally and in writing in the form of the information letter.
- My child and I have had the opportunity to ask questions about the experiment and these questions have been answered satisfactorily.
- My child and I have carefully considered my child's participation in the experiment.
- My child participates of their own free will.

I agree that:

- My child's data will be collected and stored for scientific purposes as stated in the information letter in a pseudo-anonymized form, i.e., with a key code known only to the researchers.
- My child's data may be shared in a public research database in pseudo-anonymized form, with a random key code not stored by the researchers. This includes audio files, [age](#), [gender](#), and labels with the emotion acted in the audio files. Name is *NOT* included.

I understand that:

- My child's participation is voluntary and I have the right to withdraw my child from the experiment at any time without giving a reason.
- [If I withdraw my child's participation in the experiment during recording, my child's research data will be deleted.](#)
- If I withdraw my child's participation in the experiment [after recording has finished](#), my child's research data may still be used for research purposes.
- My child's privacy is protected in accordance with Danish law and European guidelines (GDPR; EU 2016/679).
- There is a risk that someone may be able to identify my child in publicly shared research data.

I give my consent for my child to participate in this experiment

Full name, Date of birth of child

Full name, Date of birth of parent/guardian

Date, place, signature of parent/guardian

REG-no. DK 30 06 09 46

Appendix III: Intruktioner

Intruktioner

1. Du får udleveret en kopi af samtykkeerklæringen. Læs den omhyggeligt, og lad os vide, hvis du er uenig i nogen af vilkårene.
2. Hvis du er enig, skal du venligst underskrive samtykkeerklæringen og tilføje dit navn under din underskrift.
3. En optagelsessession består af fem små sessioner; i hver session skal du udføre de fem sætninger, du får udleveret, med én følelse.
4. Før starten af hver optagelse vil du blive udstyret med en kravemikrofon.
5. Når optagelsessessionen begynder, skal du udføre de fem sætninger med den ønskede følelse (f.eks. vrede, glæde, tristhed) efter hinanden, med tydelige pauser mellem sætningerne.
6. Efter at have fuldført hver følelse, skal du gå videre til den næste følelse på listen og gentage trin 5.
7. Efter denne session får du en kort pause.
8. Derefter begynder den sidste session, hvor du vil deltage i en kort samtale. I denne samtale vil du enten få tildelt en rolle (f.eks. en lærer og en elev) eller få et emne at tale om (f.eks. Hvilken sport dyrker du?).
9. Du er velkommen til at spørge, hvis du har spørgsmål.

Appendix IIIb: Instructions

Instructions

1. You will be given a copy of the consent form. Please read it carefully and let us know if you disagree with any of the terms.
2. If you agree, kindly sign the consent form and add your name below your signature.
3. A recording session consists of five smaller sets; in each set, you will enact the five provided sentences with a single emotion.
4. Before each recording, you will be fitted with a collar microphone.
5. Once the recording session begins, enact the five sentences with the requested emotion (e.g., anger, happiness, sadness), one after another, with clear pauses between each sentence.
6. After completing each emotion, move on to the next emotion in the list and repeat step 5.
7. After this session, you will have a short break.
8. Then the final session will begin, during which you will take part in a brief conversation. In this conversation, you will either be assigned a role (e.g., a teacher and a student) or given a topic to talk about (e.g., What sports do you do?).
9. Please feel free to ask if you have any questions.

Appendix IV: Privatlivsmeddelelse i henhold til GDPR

Privatlivsmeddelelse i henhold til GDPR

Opdatering af privatlivsmeddelelse

Danmarks Tekniske Universitet (DTU) er dataansvarlig for de data, der behandles i dette forskningsprojekt. Hvis du har spørgsmål til denne privatlivsmeddelelse, kontakt venligst Line Clemmensen (lkhc@dtu.dk) eller DTU's databeskyttelsesrådgiver (DPO) på dpo@dtu.dk.

Personoplysninger om dit barn indsamles til videnskabelige forskningsformål som led i en opgave udført i samfundets interesse (GDPR artikel 6, stk. 1, litra e). Vi indsamler følgende typer personoplysninger om dit barn: alder, køn, lydoptagelser af tale samt studierelaterede metadata såsom affekt-annoteringer.

Alle data vil blive pseudo-anymiseret inden for 24 timer efter dataindsamlingen, opbevaret på en sikker DTU-server og på sigt delt i pseudo-anymiseret form via DTU's dataregister. De pseudo-anymiserede data vil blive delt åbent og vil derfor ikke blive slettet.

Som registreret har du en række rettigheder:

- Du har ret til at anmode om indsigt, berigtigelse eller sletning af dit barns personoplysninger før anonymisering (fordi det efter anonymisering ikke vil være muligt at identificere data til indsigt, berigtigelse eller sletning).
- Du har også ret til at gøre indsigelse mod behandlingen af dit barns personoplysninger og, i visse tilfælde, få behandlingen af dit barns personoplysninger begrænset.
- Du har ret til at modtage de personoplysninger, som du har afgivet, i et struktureret, almindeligt anvendt og maskinlæsbart format (dataportabilitet) før anonymiseringen er afsluttet.
- Du kan altid indgive en klage til en databeskyttelsestilsynsmyndighed, for eksempel Datatilsynet, via dette link: <https://www.datatilsynet.dk/english/file-a-complaint>

Yderligere information om, hvordan DTU anvender deltageroplysninger, findes i vores privatlivspolitik: <https://www.dtu.dk/english/about/strategy-policy/policies/privacy-policy>

Appendix IVb: GDPR privacy notice

GDPR privacy notice

Privacy notice update

The Technical University of Denmark (DTU) will be the data controller for the data processed in this project. If you have any questions about this privacy notice, please contact Line Clemmensen (lkhc@dtu.dk), or the DTU Data Protection Officer at dpo@dtu.dk.

Personal data about your child will be collected for scientific research purposes as a task carried out in the public interest (GDPR Article 6.1.e). We will collect the following types of personal data about your child: age, gender, audio recordings of speech, and affect annotations.

All the data will be pseudo-anonymised within 24 hours of data collection, stored on a secure DTU server, and eventually shared in a pseudo-anonymised form via DTU's data registry. The pseudo-anonymised data will be openly shared, and will thus not be deleted.

As the data subject, you have a number of rights:

- You have the right to request access, rectification, or erasure of your child's personal data before anonymisation (because after the data is anonymised, it will be impossible to identify the data for access, rectification, or erasure).
- You also have the right to oppose the processing of your child's personal data and, in some cases, to have the processing of your child's personal data limited.
- You are entitled to receive the personal data which you have submitted in a structured, commonly used, and machine-readable format (data portability) before the data anonymisation is complete.
- You can always file a complaint with a data protection supervisory authority, for example, The Danish Data Protection Agency, via this link: <https://www.datatilsynet.dk/english/file-a-complaint>

Further information on how DTU uses participant information can be found in our privacy notice: <https://www.dtu.dk/english/about/strategy-policy/policies/privacy-policy>