**Psychological Research Ethics Board (PREBO) CEU PU**

**Application for ethical approval**

If this application is related to, and differs only minimally from, a research proposal already approved by the PREBO, it can be evaluated by an expedited procedure. In this case, attach the original application and answer only the questions that receive answers different from the original one.

If you are submitting a revision of an earlier application that has not been approved yet, provide the complete application and mark any changes.

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| *1) Are you applying for an expedited procedure or are you submitting a revision of an earlier (not yet approved) application? (yes/no)* |
| **No** |
| *1a) If yes, provide the reference number of the original application* |
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| *2) Institution (University)* |
| **Central European University**  |
| *3) Department/Unit* |
| **Department of Cognitive Science**  |
| *4) Name of the investigator (the applicant)* |
| **Natalie Sebanz, Thomas Wolf** |
| *5) Position (student, doctoral student, faculty member, researcher, etc.)* |
| **Faculty member, Postdoctoral Researcher** |
| *6) Degree (PhD, DSc, etc.)* |
| **PhD** |
| *7) Name of the supervisor (if the applicant does not have a PhD)* |
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| *8) Mailing address* |
| **CEU, Department of Cognitive Science, Quellenstraße 51-53, 1100 Vienna, Austria**  |
| *9) Email address* |
| **sebanzn@ceu.edu** |
| *10) Date of application* |
| **September 12, 2022** |

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| *11) Title of the research* |
| **TAPTAPP** |
| *12) Aims/objectives of the research (30 words max)* |
| **With this research we want to investigate the effectiveness of a training program for musicians, where they will practice self-other integration and separation in musical contexts with complex coordination requirements.**  |
| *13) Description of the proposed research (300 words max)* |
| **Participants (musicians and non-musicians) will be asked to engage in music-making activities either using generic midi-enabled music instruments, their voice, or real instruments and/or will be asked to train with the trainings program underlying the App we are going to develop (TAPTAPP). These music activities can range from tapping in an isochronous beat to playing complex compositions either alone or together with other participants. We will control whether auditory and visual feedback is mutually shared, uni-directional, or unavailable. Non-identifiable performance data will be recorded in midi, audio and/or video (e.g., just the hands) formats. We will ask for additional consent in cases in which a video recording might be identifiable (e.g., video of a performing flute player).** |
| *14) What is the funding source for this research?*  |
| **ERC Proof of Concept Grant** |
| *14a) In case of an external funding body, is there a potential conflict of interest? (yes/no; If yes, please specify)* |
| **No** |

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| *15) Age range of the participants* |
| **18-70 years** |
| *16) Participant selection criteria* |
| **Healthy volunteers, both musicians and non-musicians, who are proficient in German and/or English**  |
| *17) Are you recruiting participants using the CEU Research Participation System (SONA Systems, an established cloud-based participation management software)? (yes/no)* |
| **Yes (but not in all cases, see 17a)** |
| *17a) If no, how do you plan to recruit participants? (Attach the relevant documentation, such as flyers, letter to schools, etc., if applicable)* |
| **To recruit professional musicians, we might also need to contact some directly through either their or their agents’ publicly available email addresses.** |
| *18) Do you offer any incentive for participation?* |
| **Participants will receive monetary compensation relayed via bank transfer. Professional musicians will be compensated at a rate of 35€ for up to the end of the first hour. Each additional 30 minutes will add another 17,5 € to the compensation. For participants that are not professional musicians the rate is 10 €/hour with additional 5 € for each extra 30 minutes. For expert musicians, i.e. professional musicians, payment will be session-based. This means that for each session (max. 3 hours) the compensation will be 100€.****Participants will always be informed about the exact amount of compensation before signing up for or agreeing on a timeslot.** |

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| *19) Will the research take place in the laboratories of CEU PU’s Department of Cognitive Science (yes/no)* |
| **mostly yes (see 19a)** |
| *19a) If no, where will the research take place?* |
| **Most sessions will be held in the laboratories of the Social Mind Center (see Q19). However, to increase the chance of successful recruitment of professional musicians we will offer to test them where it is most convenient for them. This might include rehearsal rooms, music studios, music schools, and other suitable locations they have access to.** |
| *20) Will (parts of) this study be carried out online? If yes, specify the platform(s) used for recruitment, data collection and data storage* |
| **The only part of this research for which online services might be used is the administration of standard questionnaires (see point 24). Questionnaires will be provided either in paper form or electronically using the platform Google Sheets. Participants will not be asked to input data that might identify them.**  |
| *21) What kind of research equipment will you use and what kind of data will you record?* |
| **Mac or Windows computers, tablets, standard computer interfaces (keyboard, mouse, joystick), button boxes, midi interfaces, audio interfaces, microphones, video cameras, pen and paper.Behavioral data, such as timestamped button and key presses as well as questionnaire responses, audio and video recordings.** |
| *22) Will anyone be involved in data collection other than the applicant and trained CEU staff? (yes/no; if yes please specify)* |
| **No** |
| *23) Has everyone involved in data collection completed the required ethical training? (CORE: https://tcps2core.ca/login) (yes/no)* |
| **Yes** |
| *24) What kind of questionnaires, tests, interviews, etc. do you plan to employ? If these are procedures that have not previously been approved by the committee, attach a copy of them.* |
| **We will use standard questionnaires to determine participants’ handedness, age and gender and to ask about their experience after the task performance. Furthermore, we will ask them about their musical training and experience with various kinds of improvisations.**  |
| *25) The participants must give free and informed consent to the procedure before their involvement. The way this is ensured depends on the age of the participant. The information must always include the participant's right to withdraw the consent at any time.*1. *If the participant is below 3 years of age, the written information is to be provided for the parent/caregiver, who can give his/her written consent on behalf of the child.* ***Attach the information sheet and the consent form.***
2. *If the child is between 3 and 14 years, the parents/caregivers should give their consent as above, while the child should give verbal consent.* ***Attach the information sheet for the parents and the content of the information to be provided to the child in written or verbal format.***
3. *If the child is between 14 and 18 years, both the child and the caregiver must be provided with the information and give written consent to the procedure. If the child's name is not recorded, an opt-out procedure can be used with the parents (i.e., they should be given information and their consent can be presumed unless they explicitly refuse to give their consent).* ***Attach the information sheet and the consent form.***
4. *If the participants are adults, they have to be provided with information about the aim and the procedure of the research, and they must give written consent to their participation.* ***Attach the information sheet and the consent form (also for online studies).***
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| *26) Describe how you will ensure that the data collected remain confidential and that the participants would not be identifiable from them.* |
| **The data recorded in our studies are confidential: Participants are assigned a unique identifier (a number code) that will be used to identify the data. Information about participants’ identity is kept separate from the code and data. Video data that might identify participants will be stored separately on password-protected devices. We will ask for additional consent in cases in which a video recording might be identifiable.** |
| *27) In what way will personal data be stored?* |
| **Personal data is stored in the GDPR compliant participant management system SONA. Data necessary for processing the payment via bank transfer will be handled by the lab managers and the financial department of CEU in accordance with GDPR compliant procedures.**  |
| *28) Who will have access to the stored personal data?*  |
| **Stored personal data can be accessed by lab managers, the lead researcher and other authorized researchers. Data necessary for bank transfers will be accessible to the financial department of CEU in accordance with GDPR compliant procedures.**  |
| *29) How will you ensure that personal data will be protected as required by GDPR?*  |
| **Personal data will always be kept separate from research data and handled within the GDPR compliant SONA system. Personal data necessary for bank transfers will be handled by lab managers and the financial office following a procedure checked for GDPR compliance.**  |
| *30) Does your project involve measures of brain activity? (yes/no)* |
| **No** |
| *30a) If yes, what happens if the data reveals some kind of abnormality?* |
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| *31) Does the procedure involve…* |
| *a) … unpleasant stimuli or unpleasant situations? (yes/no)* |
| **No** |
| *b) …invasive procedures or eliciting pain? (yes/no)* |
| **No** |
| *c) …deprivation of water, food, sleep, etc.? (yes/no)* |
| **No** |
| *d) …drug administration? (yes/no)* |
| **No** |
| *e) …any procedure that could harm the participant? (yes/no)* |
| **No** |
| *f) …research on mental patients or at-risk individuals? (yes/no)* |
| **No** |
| *g) …misleading or deceiving the participants? (yes/no)* |
| **No** |
| *h) …withholding information about the nature of the research? (yes/no)* |
| **No** |
| *i) …any procedure (e.g., in-depth interviews) that might inadvertently cause anxiety, distress, or suffering to the participant? (yes/no)* |
| **No** |
| *27) Answering YES to any of the above questions does not rule out the approval of the proposal. However, if you have answered YES to any of the above questions, describe why you consider the procedure necessary and what measures will be taken to ensure the participants' safety and well-being.* |
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| *32) Is there any further aspect of the research that you think is important for ethical consideration? (yes/no)* |
| **No** |
| *32a) If yes, please specify.* |
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| To the best of my knowledge this study conforms with all ethical standards required for psychological research and I apply for approval.Date: September 12 2022Signature of the applicant:Letter  Description automatically generated with low confidence  |

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| I have read the application and I confirm that in my view all ethical issues have been addressed.Date:Signature of the supervisor (if applicable): |

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| The research proposal has been scrutinized and approved by the committee.Reference number: Date:Signature of the chair (or the acting member) of the committee: |